Slashing Your Home’s GHG Emissions: Where to Start

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Context: Building GHG Emissions

California GHG Emissions (2011-2015)

- Transportation: 37%
- Industrial: 23%
- Ag & Forestry: 8%
- Electricity Generation (In State): 11%
- Electricity Generation (Imports): 9%
- Buildings: 12%
- Total: ~444 MMtCO2e/year

Source: CA ARB GHG Inventory; 5-average of emissions by economic sector

Buildings = ~2nd largest source of GHGs (includes emissions from electricity use)

- Mostly from on-site combustion of gas for water heating and space heating.
- Emissions could ~double when including methane leakage.
What drives your house’s emissions?

**Electrification = clean alternative to gas appliances**

**Household Gas Consumption in CA and climate-friendly electric options**

- Electric induction stove: 7%
- Pools, spas, misc.: 4%
- Stove: 7%
- Space heating: 37%
- Water heater: 49%
- Clothes dryer: 3%

Source: CA Residential Appliance Saturation Study 2010
Do you have a “dryer outlet”?

Use that circuit to power a water heater!
Specifically: an Electric Heat Pump Water Heater
Help You’ll Need

• Electrician

• Plumber familiar with Electric Heat Pump Water Heater installations
  • May be installation partner for store that sells water heater
  • Look for someone that offers pre-installation readiness assessment
Results So Far: Latest PG&E Bill

- 6/14: Induction range
- 6/21: Electric heat pump water heater
- 8/11: Electric Heat Pump Dryer
- 12/5: 2\textsuperscript{nd} EV

Visit [www.pge.com/MyEnergy](http://www.pge.com/MyEnergy) for a detailed bill comparison.
Lots more to do!

• You need to start somewhere; start with a high-impact change!
• Relatively quick and cheap
• Minimal lifestyle impact
• Look at electric vehicles next