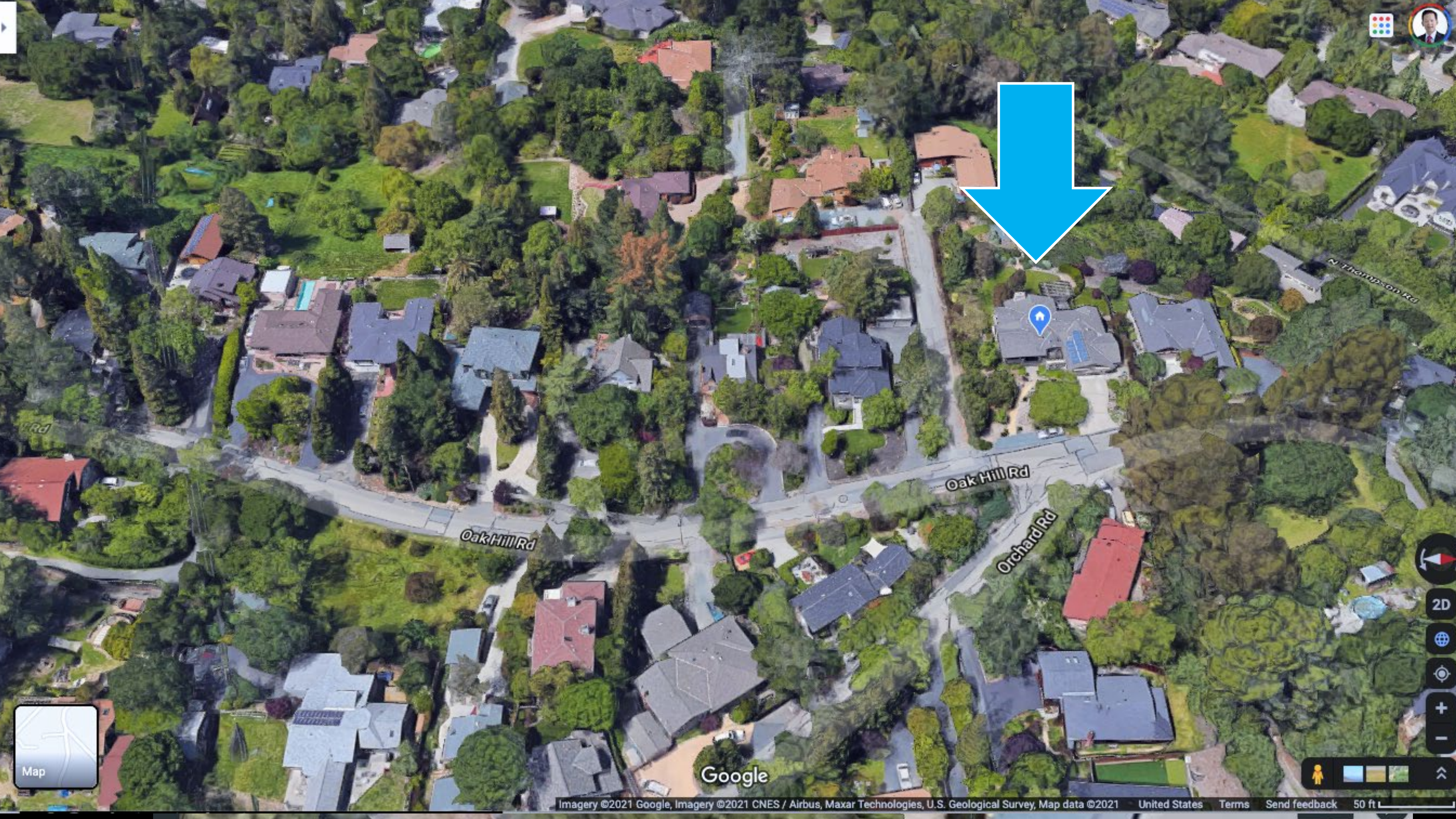


**“Must we burn
fossil fuels
in our homes?”**



Oak Hill Rd

Oak Hill Rd

Orchard Rd

N Thompson Rd



Google



2D

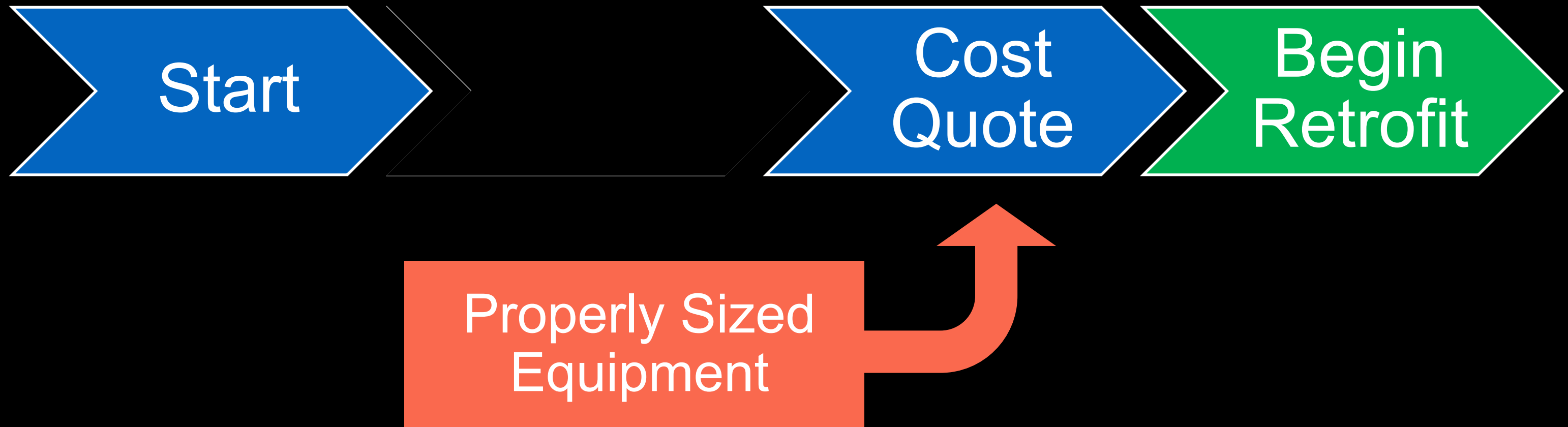


Where does our home burn fossil fuels?

1. Gas furnace
2. Gas hot water heater
3. Gas cooktop
4. Gas fireplace



Questions:
How much will this cost?
What are the benefits?



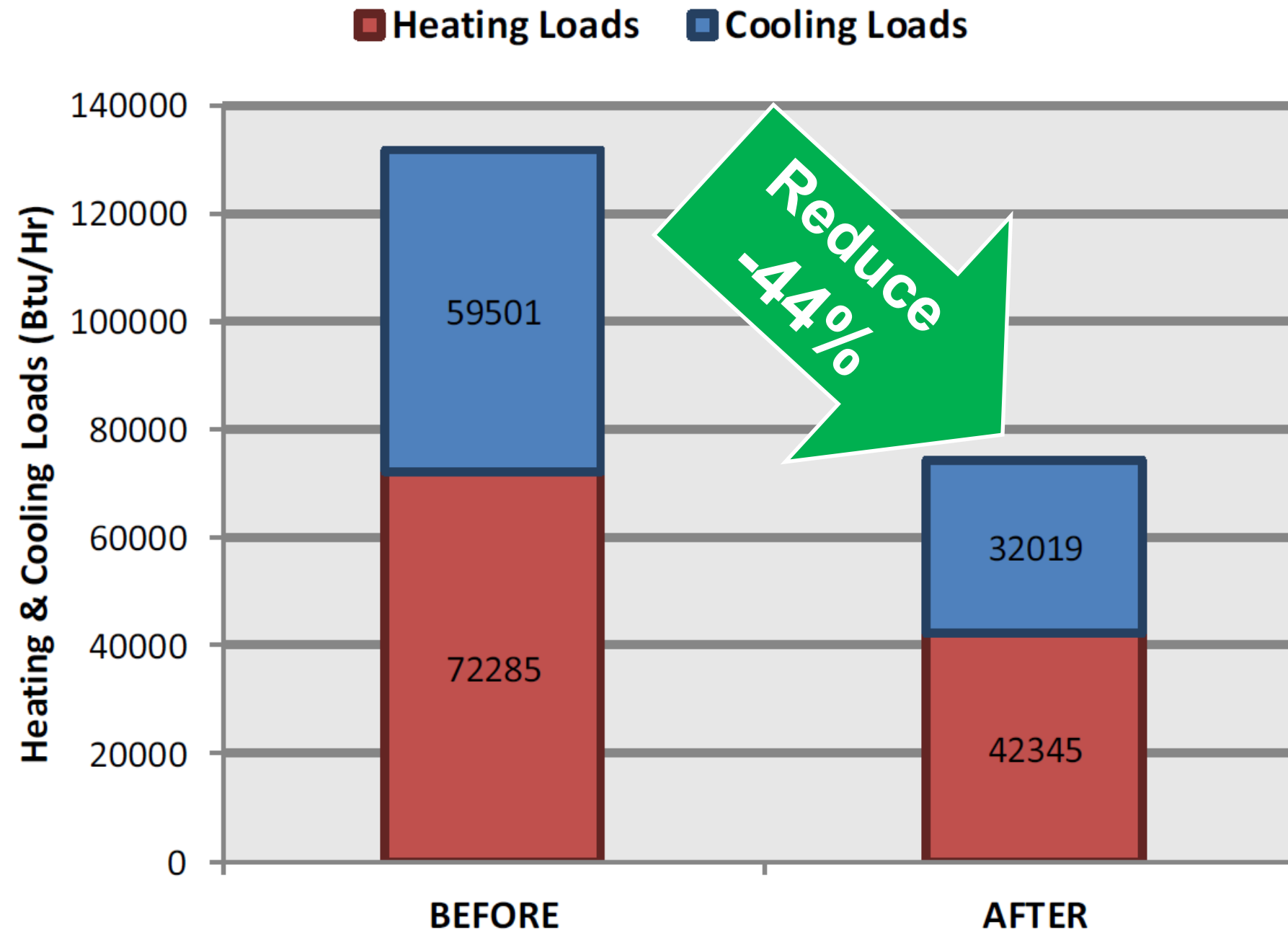
Step One: Energy Audit (\$550)



Gap Sealing: saves energy, improves air quality



Heating and Cooling Load Reductions



Reduced load = Smaller, cheaper HVAC



After Air Seal

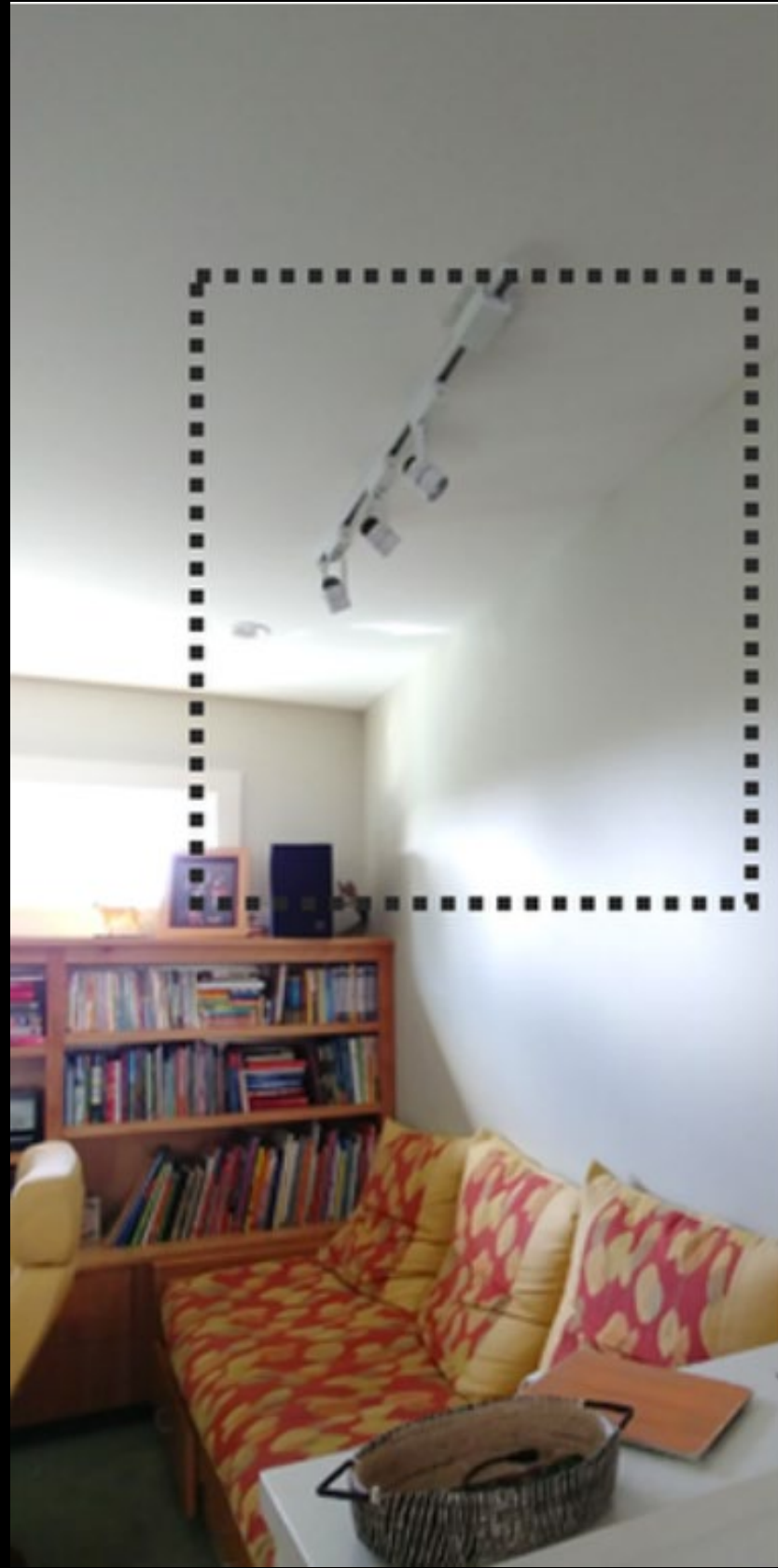


Fiberglass Removed

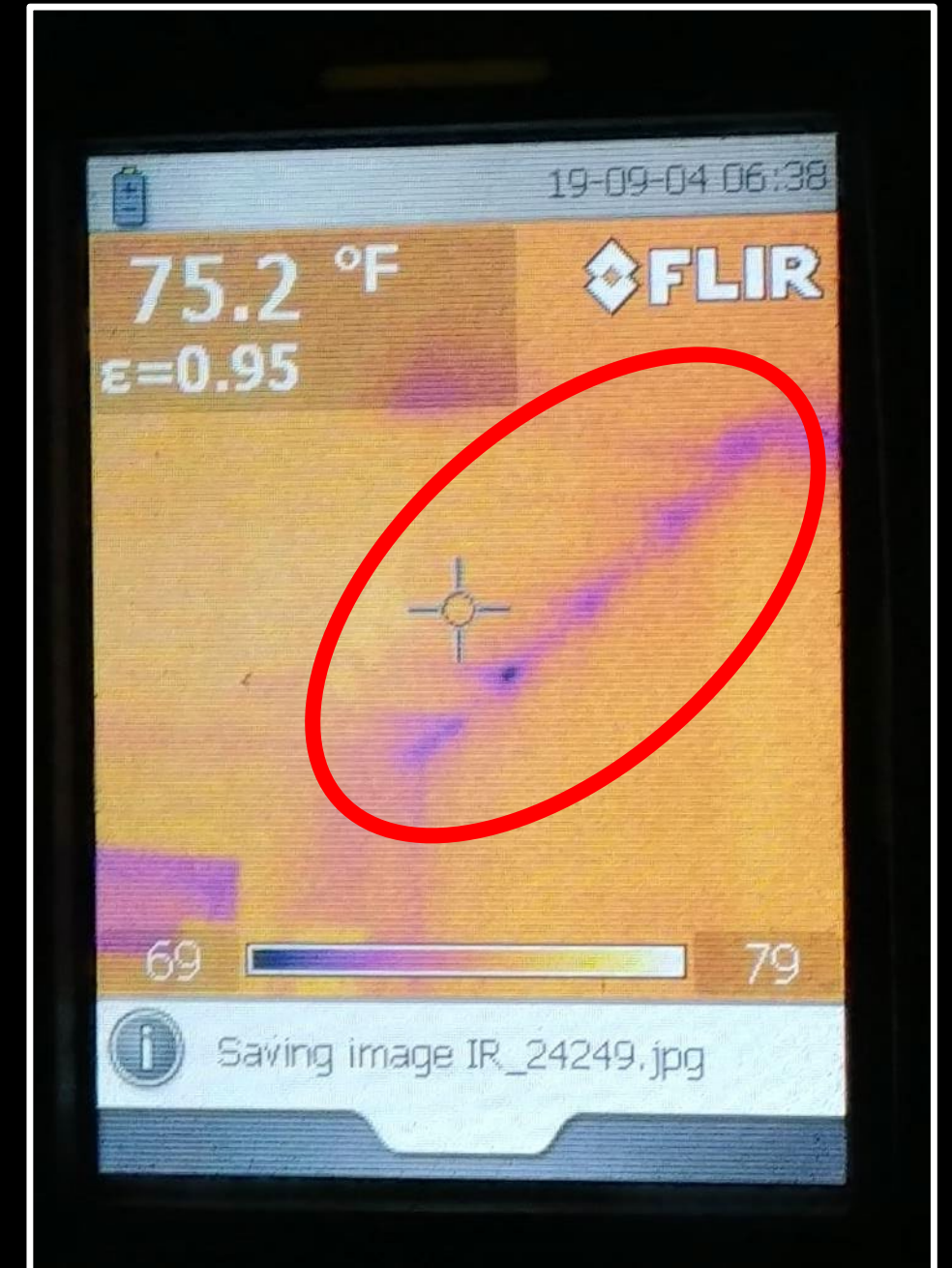
16-18" Blown-in Cellulosic Insulation (to R-50)



BEFORE



AFTER



Completed
in
45 Days



Heat Pump Ductless Minisplit



Many form factors for indoor air handlers



> Wall Mounted



> Universal Floor/Ceiling



> Large Ceiling



> Floor Mounted



> Slim Duct



> Medium Static Pressure Duct



> Compact Cassette



> Cassette

Central Heat Pump System with Ducts & Vents?



Removal and drywall patching of legacy vents.



Got many inquiries for 2nd hand vents (for \$2/ea)

A collection of various white HVAC registers and grills is laid out on a surface. There are several small square registers, a few rectangular registers, and two large rectangular registers with louvered fronts. A yellow measuring tape is also visible among the items.

Marketplace › Household
HVAC Grills and 3-Way Wall/Ceiling Register
Lafayette, CA · over a week ago · 🌐

\$2 Viewed by 244 people

An assortment of white, steel HVAC registers and grills removed recently from my 15-year old home.... [More](#)

[Read](#)  © OpenStreetMap

Seller Information
 **Wei-Tai Kwok**
Joined Facebook in 2007

[Mark as Sold](#)

[Mark as Pending](#)

[Edit Listing](#)

Heat Pump Hot Water Heater

Sanden CO₂



**83
Gallon
Tank**



**Whisper
Quiet
Outdoor
Unit**

66 feet max

Split

vs

Single



Budget

1	Ductless Mini Split Heat Pump HVAC System	\$27,000
2	Energy Efficiency (Air Sealing & Attic Insulation)	11,130
3	Heat Pump Water Heater: Sanden CO ₂	7,650
4	Heat Recovery Ventilation System (HRV)	7,200
5	Induction Cooktop + electrical + labor	2,500
6	Electric Fireplace	<u>475</u>
	TOTAL	~\$56,000

Fed tax credit - \$500

Disconnected from the [gas] grid

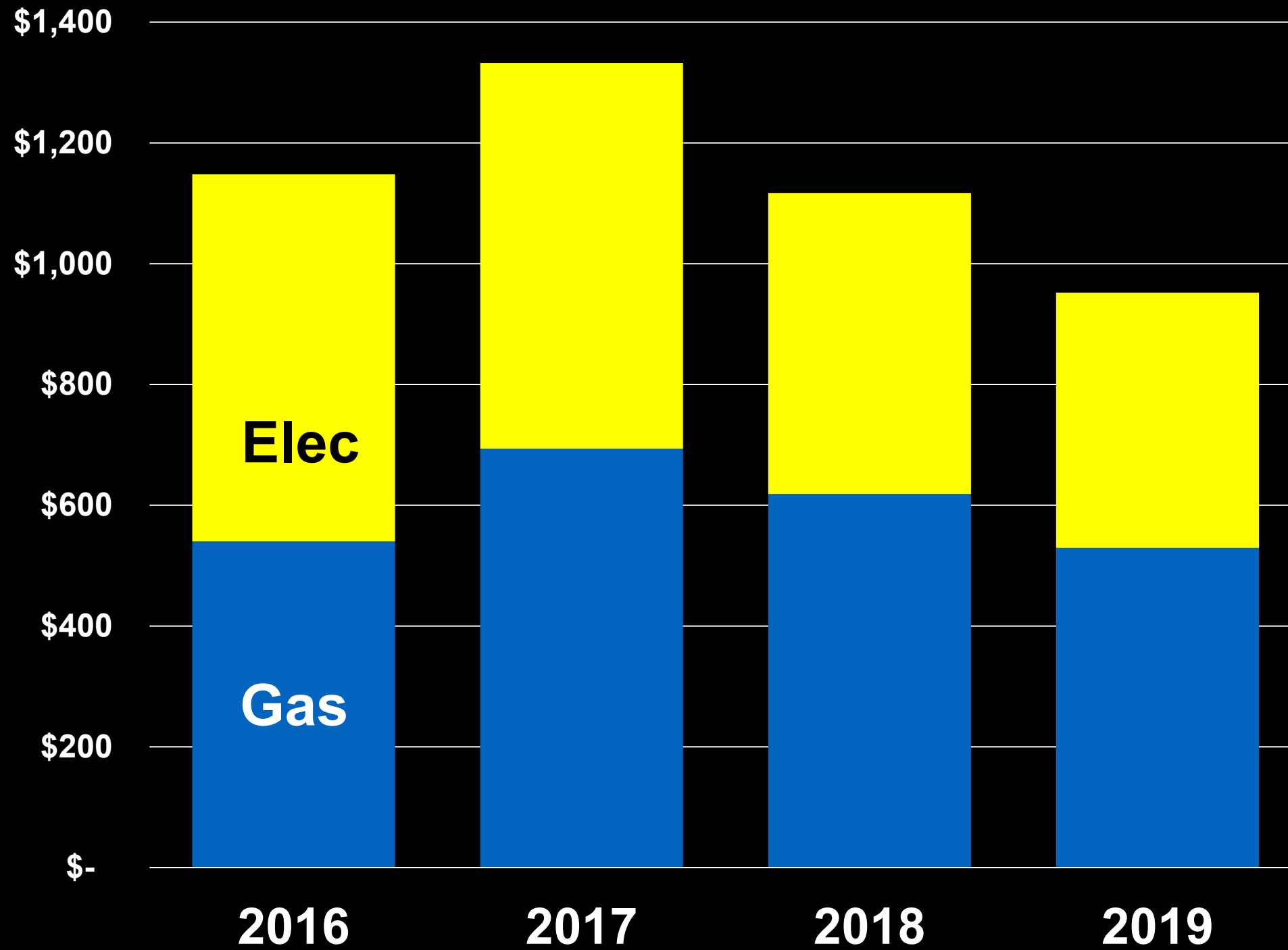
November 11, 2019



**Never imagined a Zero Emission Home
Powered by my solar + clean grid energy**



Annual PG&E Energy Bill



For trailing 12 months ending each SEP