ELEPHANT ENERGY

Elephant Energy & Home Electrification

June 2024

Agenda

1. Who is Elephant Energy?
2. Customer Journey: Climate Friendly Homes
3. Q&A

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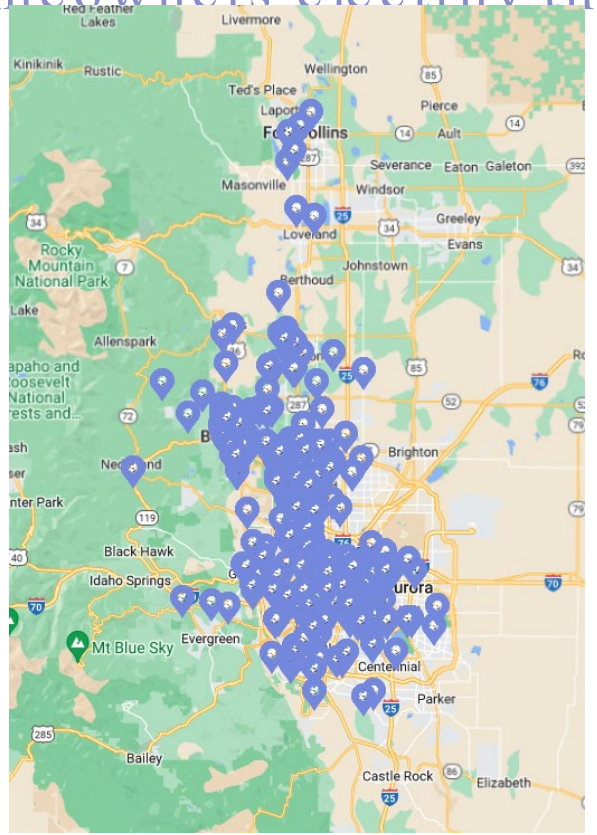
We're on a mission to **accelerate** the end of fossil fuel use by **electrifying everything,** starting with homes.

- Heat Pumps / HPWH
- Weatherization
- EV Chargers
- Electric Appliances

Elephant Energy has helped 600+ Colorado homeowners electrify their homes!



"Elephant Energy was very **friendly, responsive, and transparent** throughout the whole process…They set us up with the **right solution for our family** ." - Jeffrey P.

"Great local company who take a **different (and proper) approach to home electrification** …Rather than try and just sell to me, they provided lots of recommendations for **remedying my current issues.** " - Beau C.

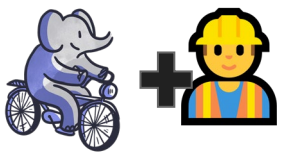
"Highly recommended! They worked with **experienced contractors** to help us ditch fossil fuels…**Great service and competitive pricing.** Elephant Energy rocks!" - Sam H.

Business Model - we manage end-to-end project delivery for all of our customers

Customer Acquisition | System Design | Equipment Procurement | Installation & Incentives | Service & Maintenance

Elephant Model




We work with a network of carefully vetted contractor partners, who each hold the requisite licenses for their respective trade. Our in -house Project Managers oversee every installation.

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3 Rules for a Climate -Friendly Home

Don’t burn stuff.

- Switch to a heat pump for heating and cooling
- Heat your water with a heat pump water heater
- Change out your gas stove for induction
- Install an EV charger

Don’t use energy made from burning stuff.

- Get rooftop or community solar
- Or, go all-green with your local electric utility
- Purchase a battery backup

Be efficient.

- Weatherize your house with insulation and air sealing
- Schedule regular maintenance for your appliances
- Install a smart panel

Why Electrify?

Cleaner Planet

An electric home emits substantially **less carbon – between 25% and 93%** less over 15 years.[1]

Increase Comfort

Electrification and weatherization upgrades ensure **more consistent temperature control.**

Save Money

Homeowners who have electrified save an **average of $1,050-2,585** *each year* on energy bills.[2]

Add Home Value

Upgrading to a heat pump can **increase the value of your home by an average of 4-7%.**[3]

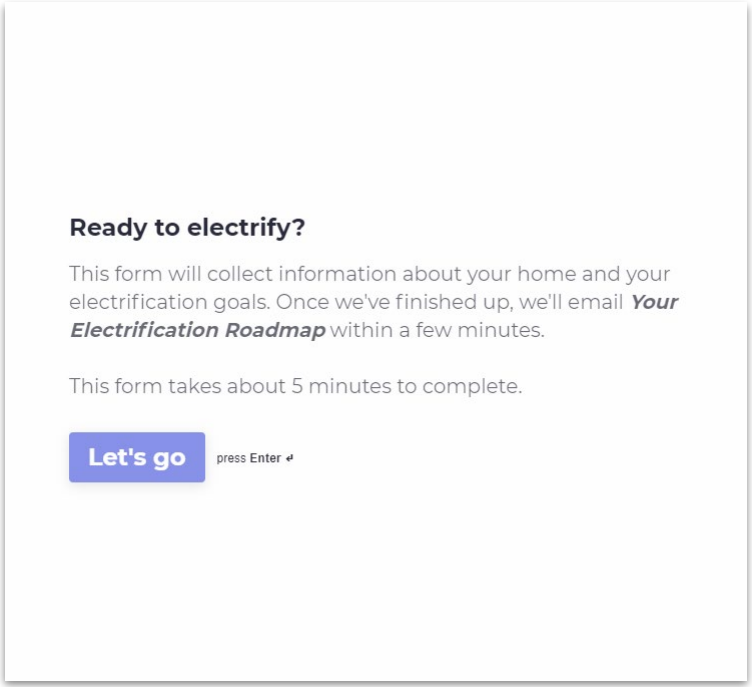
Increase Health & Safety

Almost 13% of current childhood asthma is attributable to gas stove use.[4]

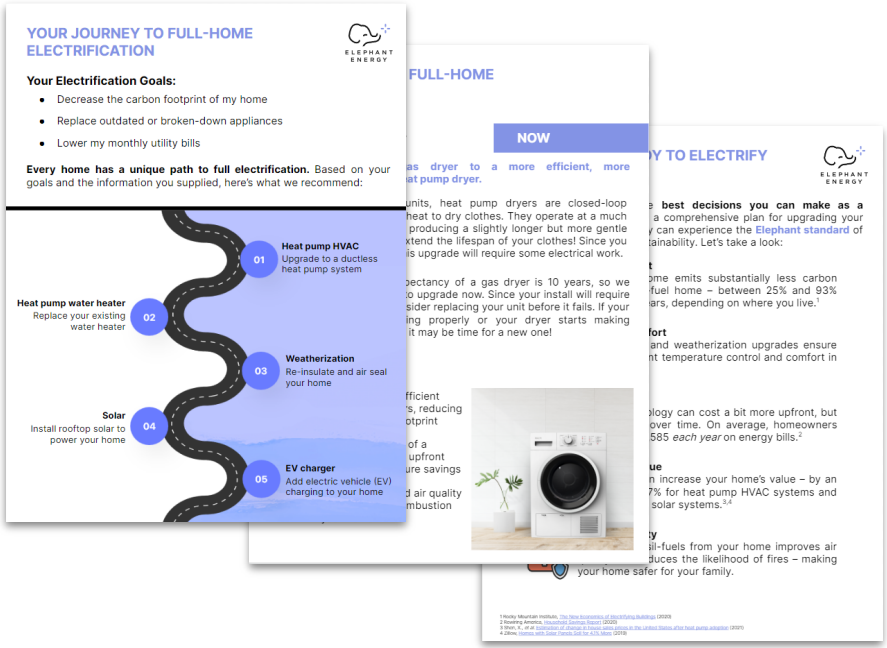
1 Rocky Mountain Institute, The New Economics of Electrifying Buildings (2020)
2 Rewiring America, Household Savings Report (2020)
3 Shen, X., *et al.* Estimation of change in house sales prices in the United States after heat pump adoption (2021)
4 International Journal of Environmental Research and Public Health, Population Attributable Fraction of Gas Stoves and Childhood Asthma in the United States (2022)

Our tool, “Your Electrification Roadmap”, helps homeowners to chart their unique paths

Click GET STARTED on our website, and fill out the below form:

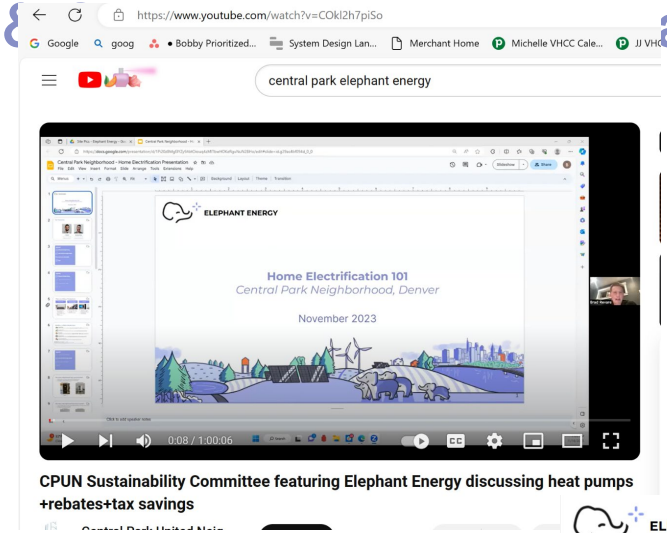


Example Output:



Link: Elephant Energy, Your Electrification Roadmap

Our “Secret Sauce”: Homeowner Education {admaps



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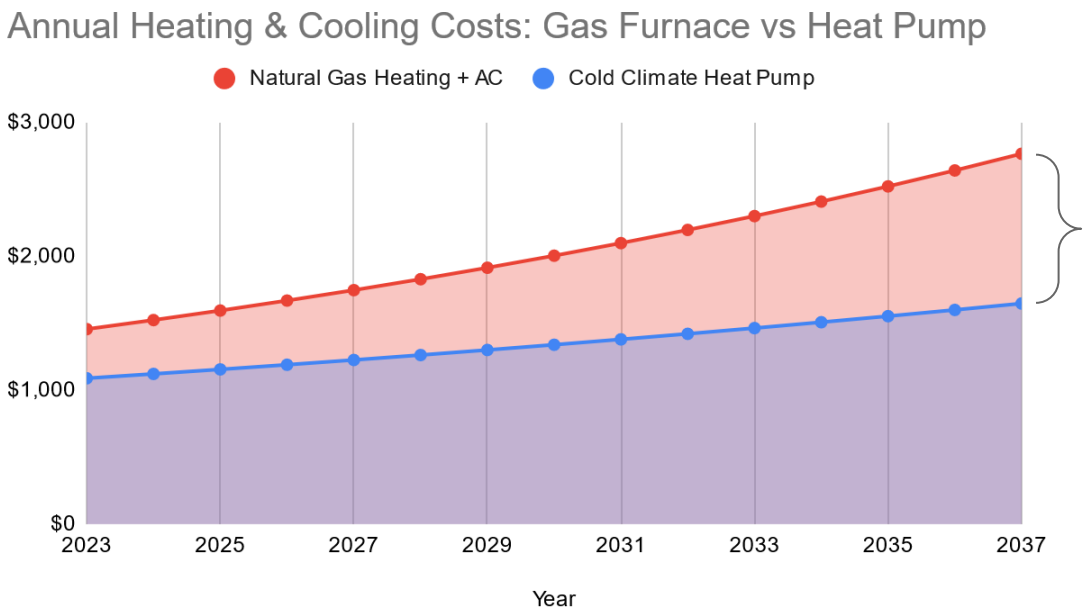
Thank You!

https://elephantenergy.com/

APPENDIX

SAMPLE: Cost and Carbon Implications



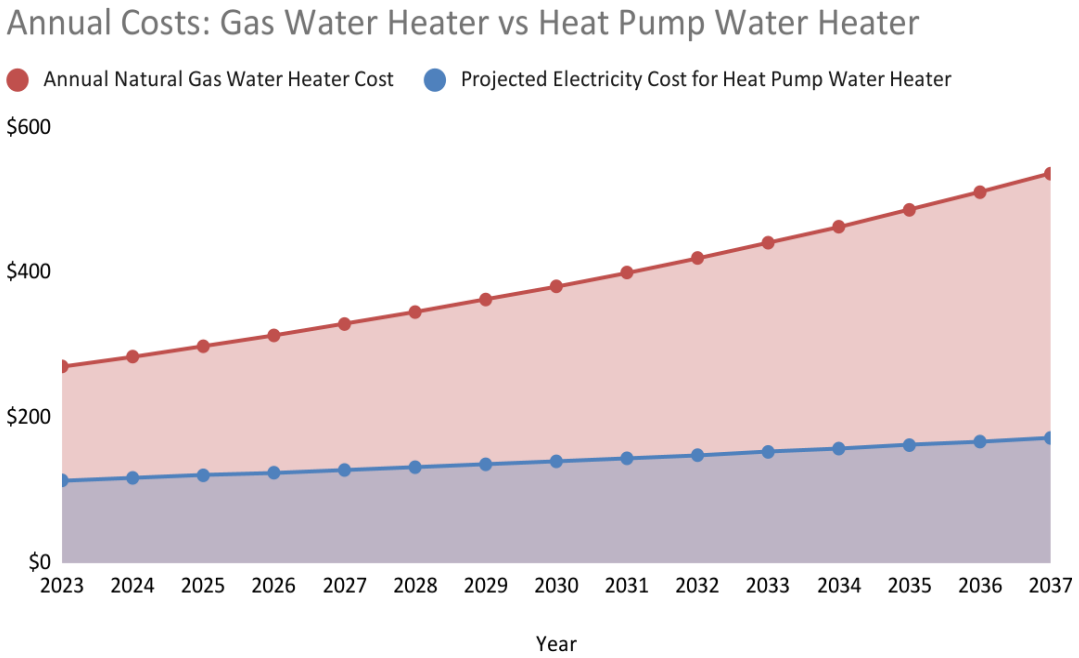
Estimated 15 Year Savings of:

$9,350

Carbon Savings	**113,278**	lbs of CO_2
% Reduction	**77%**	

Heat Pumps will reduce your annual heating bills and carbon emissions by using technology that is ***significantly*** *more efficient.*

Water Heater: Cost & Carbon Implications



Estimated 12 Year Savings of:

$3,728

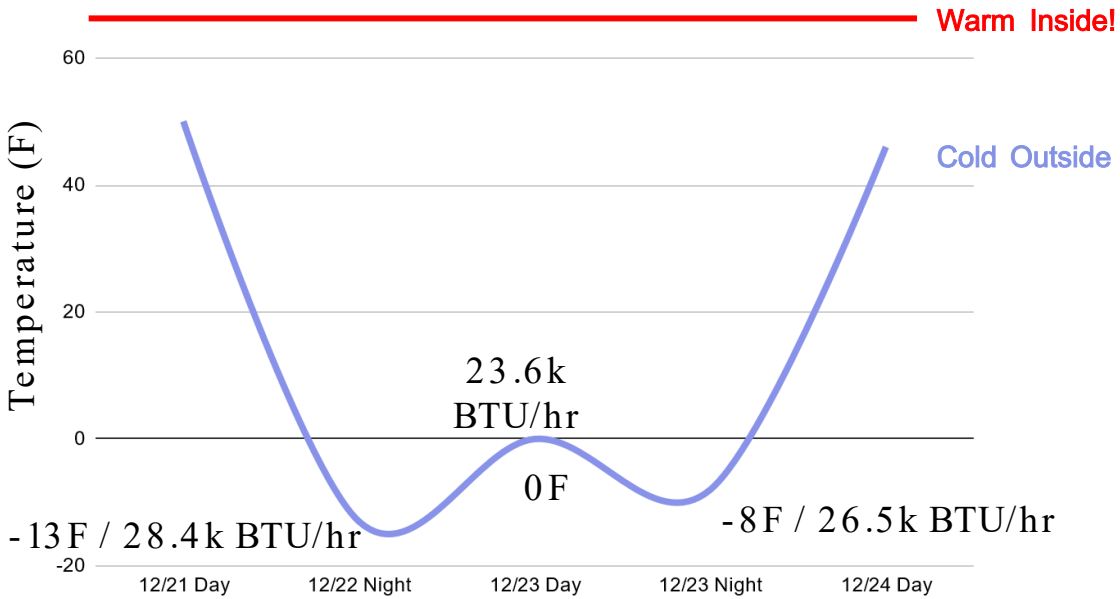
Carbon Savings	**34,803**	lbs of CO_2
% Reduction	**89%**	

Heat Pump Water Heaters will reduce your annual heating bills and carbon emissions by using technology that is ***significantly*** *more efficient.*

SAMPLE: Covering Heat Load in a Central Park Home

Modeling Your Home During the Dec '22 Cold Snap

Colorado's Coldest Weather in 30 Years!



System Selection

Outside Temp (F)	Your Heating Need (k BTU/hr)
-20.00	29.3
-10.00	25.8
0.00	22.4
10.00	19.0
20.00	15.5

Our recommended heat pump can produce over 36,000 BTU/hr and has a thermal shutoff of -23F

Programs CEO will administer with IRA funding:

Title	Description	CO Amount
IRA 50122: Home **Electrification and Appliance** Rebates (HEAR) or (HEERA)	Electrification of **efficient appliances**	$70.3M
IRA 50121: Home Energy **Performance**-Based, Whole Home Rebates (HOMES)	Energy **efficiency retrofits** with savings based on energy saved, either modeled or measured	$69.9M

COLORADO Energy Office

*** Home Energy Rebate Program funds are not yet available.*

COLORADO

Q: Will any State IRA-funded rebates be available for customers with income higher than 150% of AMI?

A: No

Q: When will state-administered, IRA-funded rebates be available?

A: We are in the process of building and designing the rebate program. Advise customers not to wait to purchase equipment if they are ready to purchase equipment.

COLORADO
Energy Office

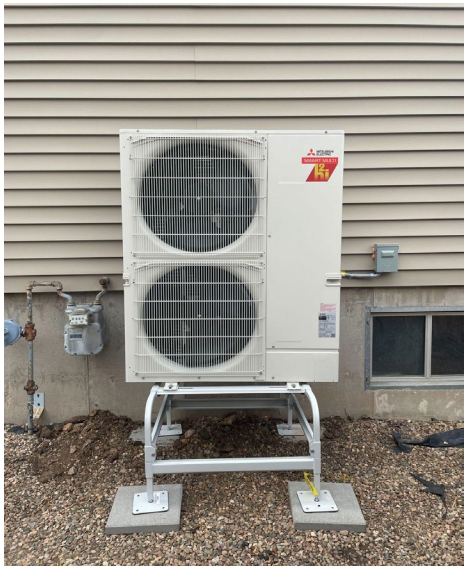
What does a ducted Heat Pump system look like?

- Reuses existing ductwork from previous furnace/air conditioner/heat pump
- More airflow than most furnaces (good for more even heating/cooling!)
- 3x more efficient than high efficiency furnaces

Indoor Air Handler Unit

Can be vertical (as shown) or horizontal

Outdoor Condenser

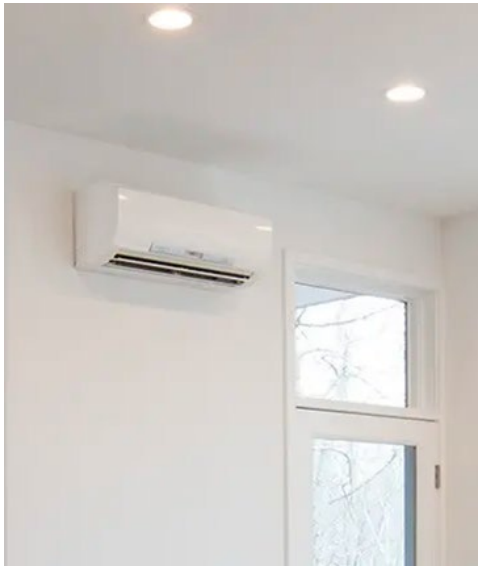


52” tall

What does a Mini Split Heat Pump system look like?

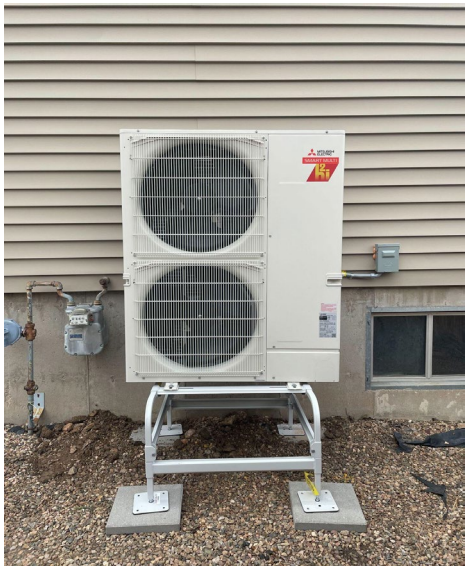
- A single minisplit can treat up to 1,000 sqft, but total MS needed *depends* on how many rooms in the home
- Outdoor condenser powers indoor mini-splits
- Very efficient and utility bill friendly system!

Mini - Split Heads



Can be ceiling cassettes, wall mounts or floor mounts

Outdoor Condenser

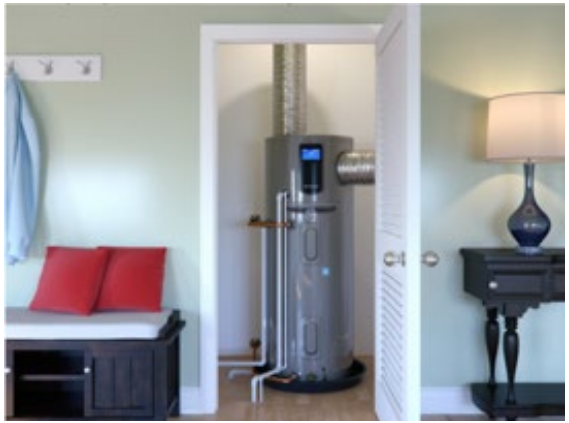


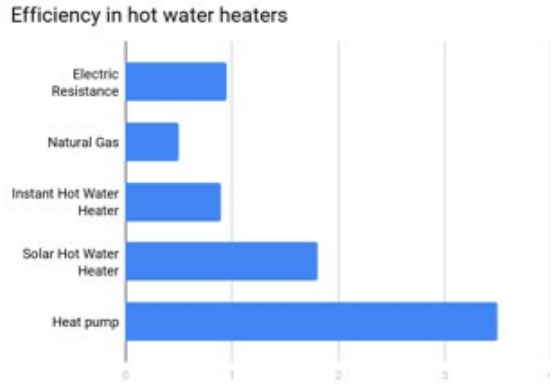
52” tall

How Heat Pump Water Heaters Work

Use electricity to pull heat from surrounding air & transfer it to water in your tank - i.e., a refrigerator in reverse

- 2-3x+ more energy efficient vs. conventional electric resistance water heaters
- Since they don't generate heat, gas leaks & toxic emissions are non-existent
- Installing them in space w/ excess heat (furnace room) → greater efficiency





Feel good *in* your home. Feel good *about* your home.

Benefits to an Energy Audit

a comprehensive evaluation of a home, a building, or a facility to determine how energy is being used and where energy is being wasted.

What you need to know about energy audit	
What it includes	Thorough examination of a building's lighting, HVAC systems, insulation, and appliances to identify inefficiencies and areas where energy usage can be reduced
Blower door test	A diagnostic tool used to measure air leakage in a building. It involves sealing all openings in the building envelope and using a special fan to create a pressure differential, allowing the auditor to measure the rate of air infiltration.
Output/Report	Breakdown of energy consumption by area, a list of potential upgrades or repairs, and an estimate of the cost savings based on the recommendations
Cost	$150 after Xcel Rebate
Advantages	• Identify opportunities for energy savings and efficiency improvements, which can help reduce energy costs, improve indoor comfort, and lower greenhouse gas emissions • Improve the a home's sustainability • identify opportunities for financial incentives or rebates offered by utility companies or government programs for energy efficiency upgrades