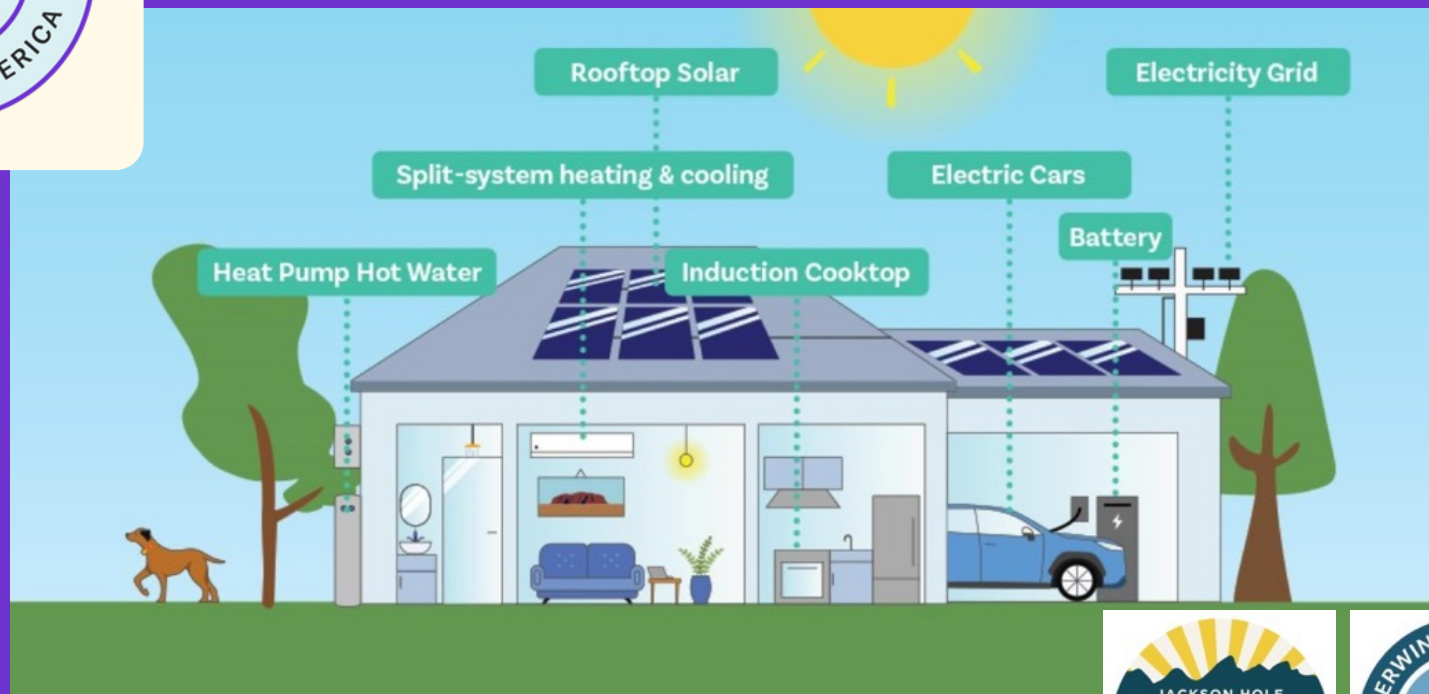




September 10, 2025
Sustainability Series





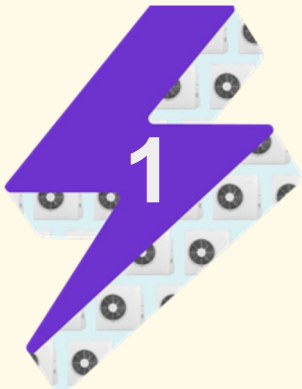
Image: wecandoit.tech

OVERVIEW

Why Electrify



Action Steps



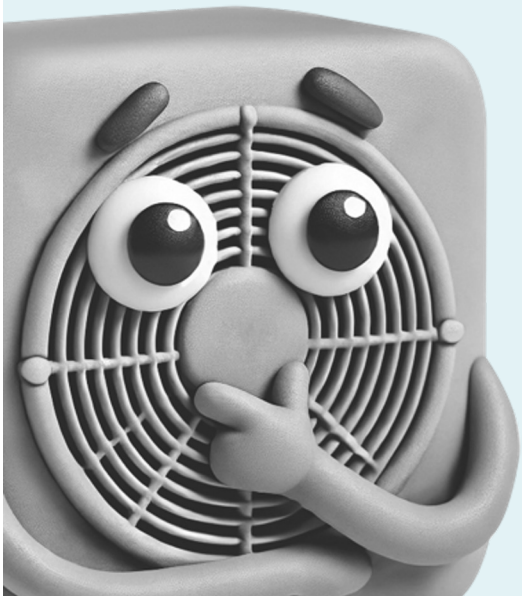
Benefits





Why Electrify

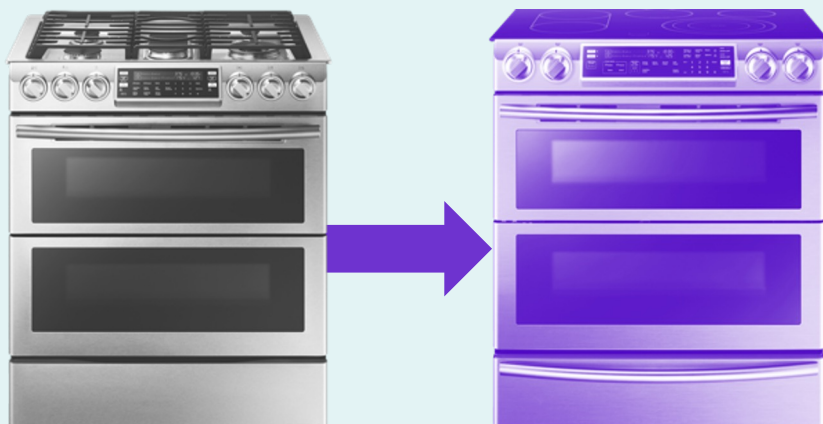
What does “**electrify everything**” mean?



In two steps, to “electrify everything” means:

1

Replace any machine that currently burns fossil fuels with an electric version.



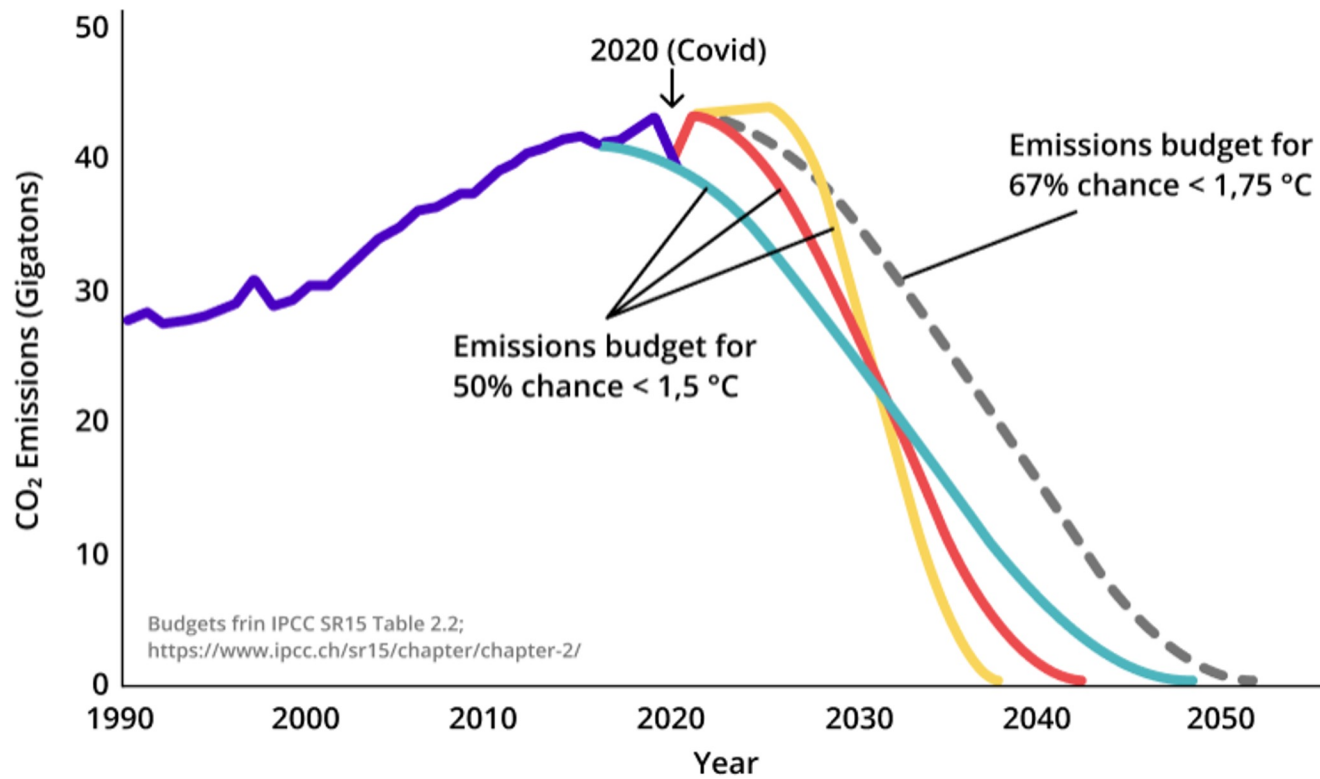
2

Power that electric machine with clean, renewable energy.



Images: Adobe Stock; Rewiring America photo illustration

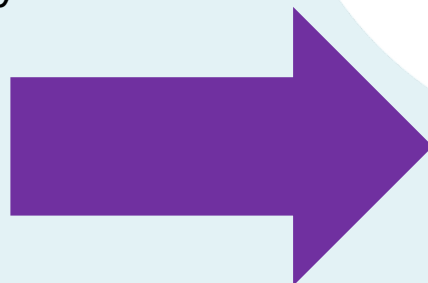
THE STAKES



FOCUSING OUR ENERGY

87%

of emissions come from energy



The other 13%

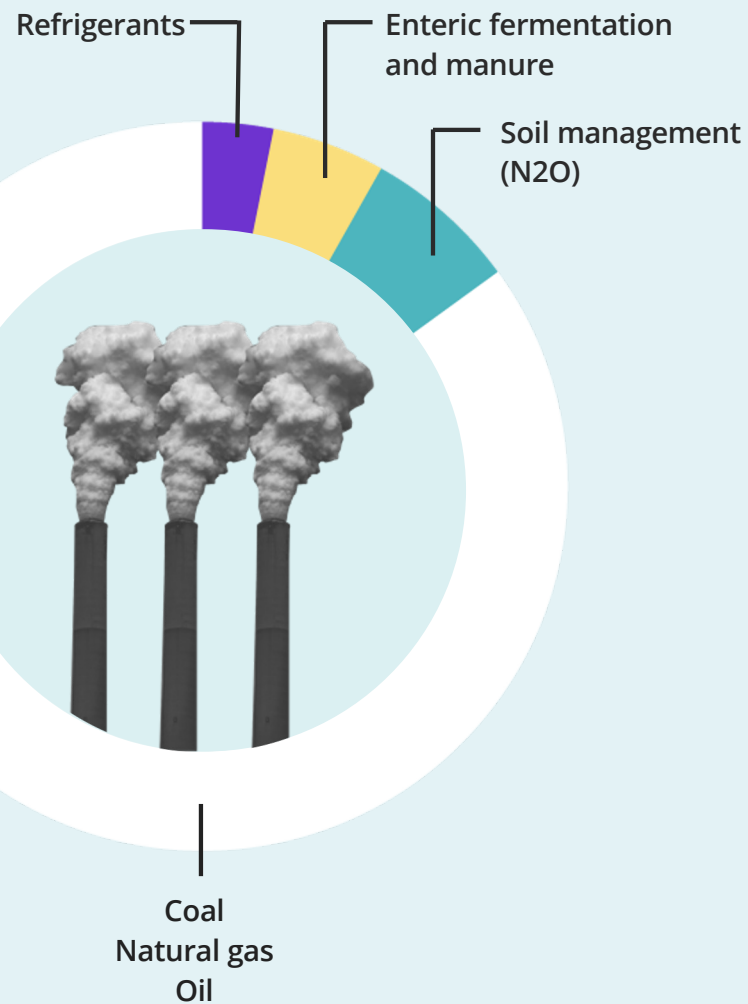


Image: Adobe Stock; Rewiring America photo illustration



Brief history of our love/hate relationship with fossil fuels



1800s

1900s

1930s

1970s



Fossil fuels fuel the
Industrial Revolution



1800s

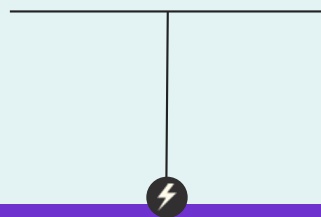
1900s

1930s

1970s



Energy crisis, EPA,
environmental movement



1800s

1930s

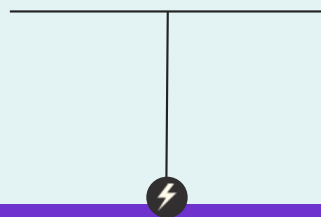
1970s

2015

2022



Paris Climate Agreement



1800s

1930s

1970s

2015

2022



Inflation Reduction Act

- \$8.8 billion for home energy upgrades
- Tax credits for purchases like EVs & more
- Roadmap for ditching fossil fuel appliances

1930s

1970

2018

2022

2025



PRESIDENTIAL ACTIONS

Unleashing American Energy

Executive Orders | January 20, 2025

→ Tax credits for purchases like EVs
→ Roadmap to fuel efficiency

Federal government
pulls back clean
energy policies and
funding



1930s

1970

2018

2022

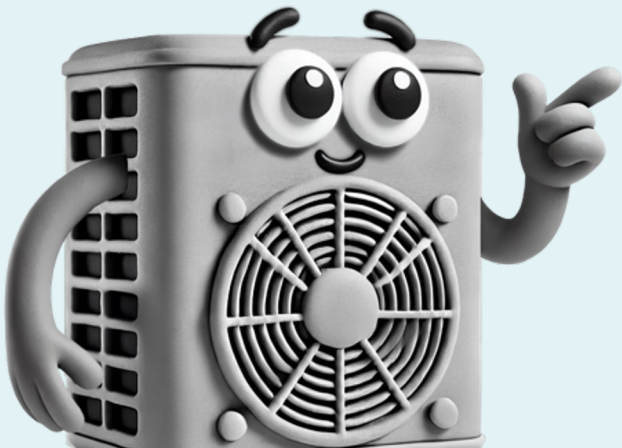
2025



Benefits

Image: JacksonHoleTraveler.com

What are the **benefits** of electrifying everything?



Globally, **nine million** people die every year from air pollution.



Image: Adobe Stock

HEALTH

Electrifying is critical for our health, and vastly improves indoor air quality.

- Children living in a home with gas cooking have up to a **42%** increased risk for asthma.
- Gas stoves emit **benzene** levels comparable to secondhand smoke.



Image: Adobe Stock

HEALTH

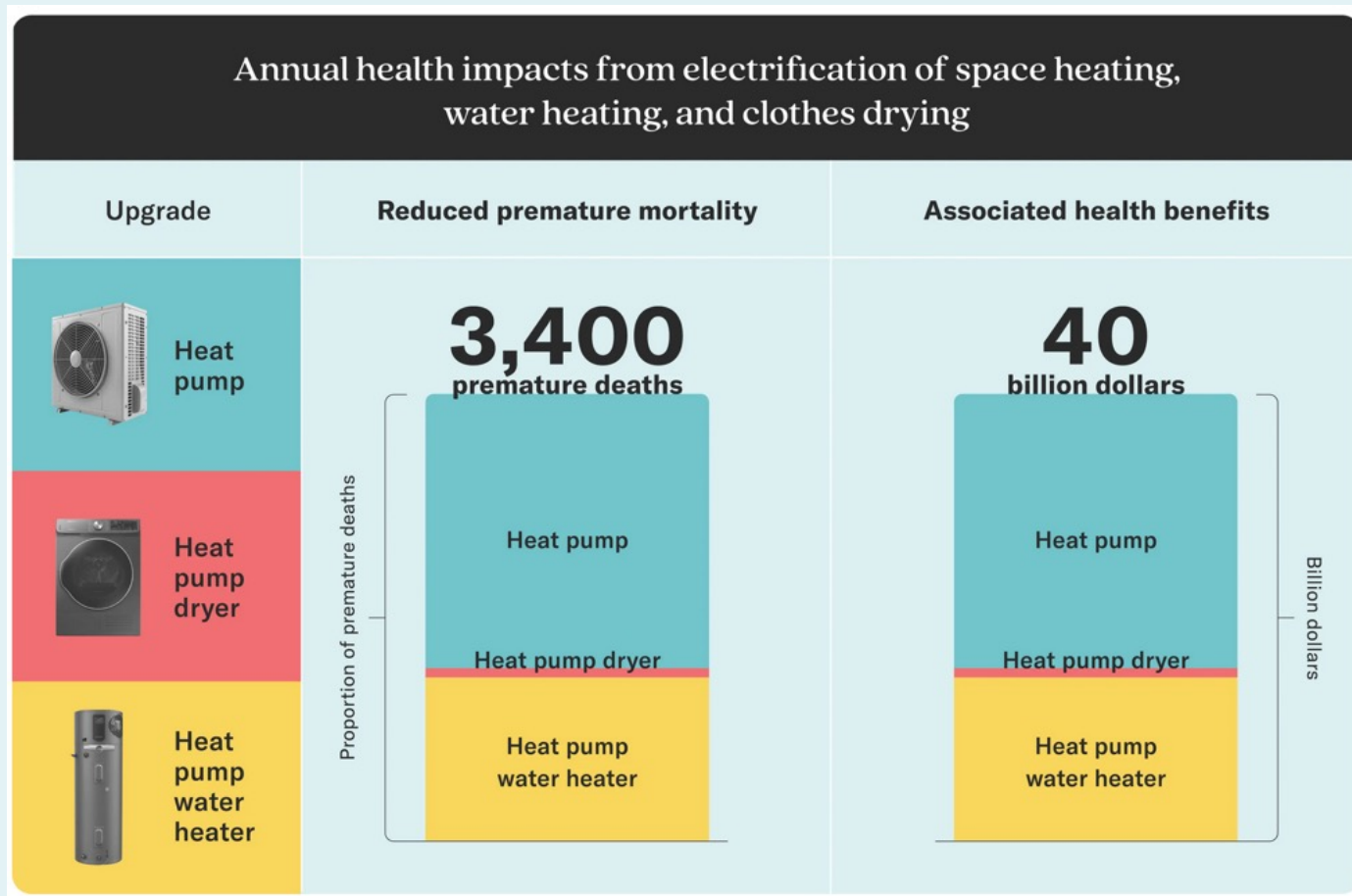
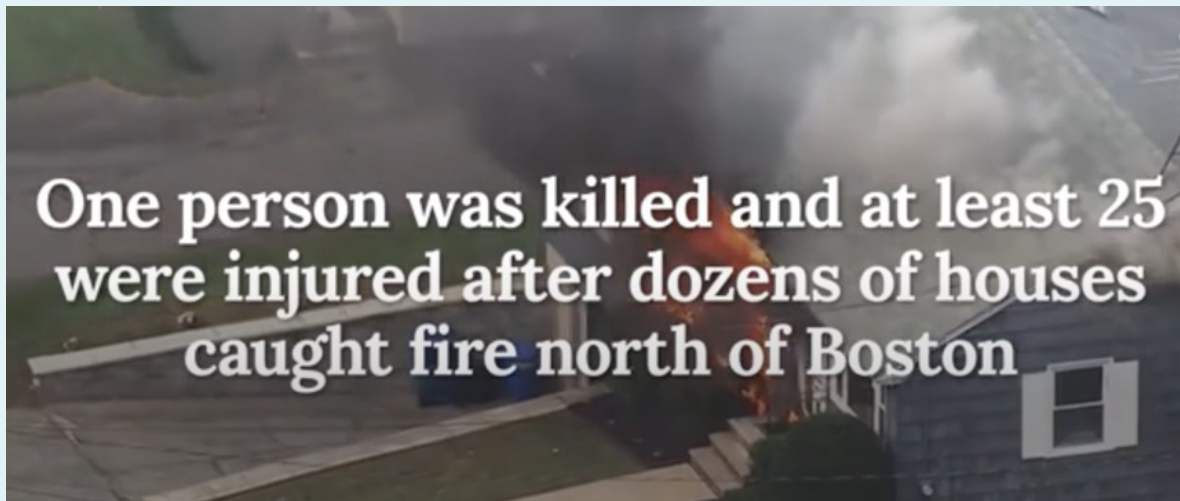


Image: Breathe Easy Report, Rewiring America

SAFETY

Gas can be downright dangerous.



One person was killed and at least 25 were injured after dozens of houses caught fire north of Boston

Image: WCVB TV and TIME Magazine

TOP STORIES



ROAD CONDITIONS

Simpson Ave. closed due to gas leak; avoid area

JACKSON, Wyo. — Part of W. Simpson Ave. is closed due to a gas leak, according to an emergency alert by Teton County sent on Wednesday afternoon. The road is closed between

Image: **Today's** Buckrail

What actually is “**natural gas**”?

“Natural” gas is **80-90% methane** —
an even more potent contributor to
global warming than carbon dioxide.

THE 5 Cs



COMFORT

An all-electric home and lifestyle means a better experience.

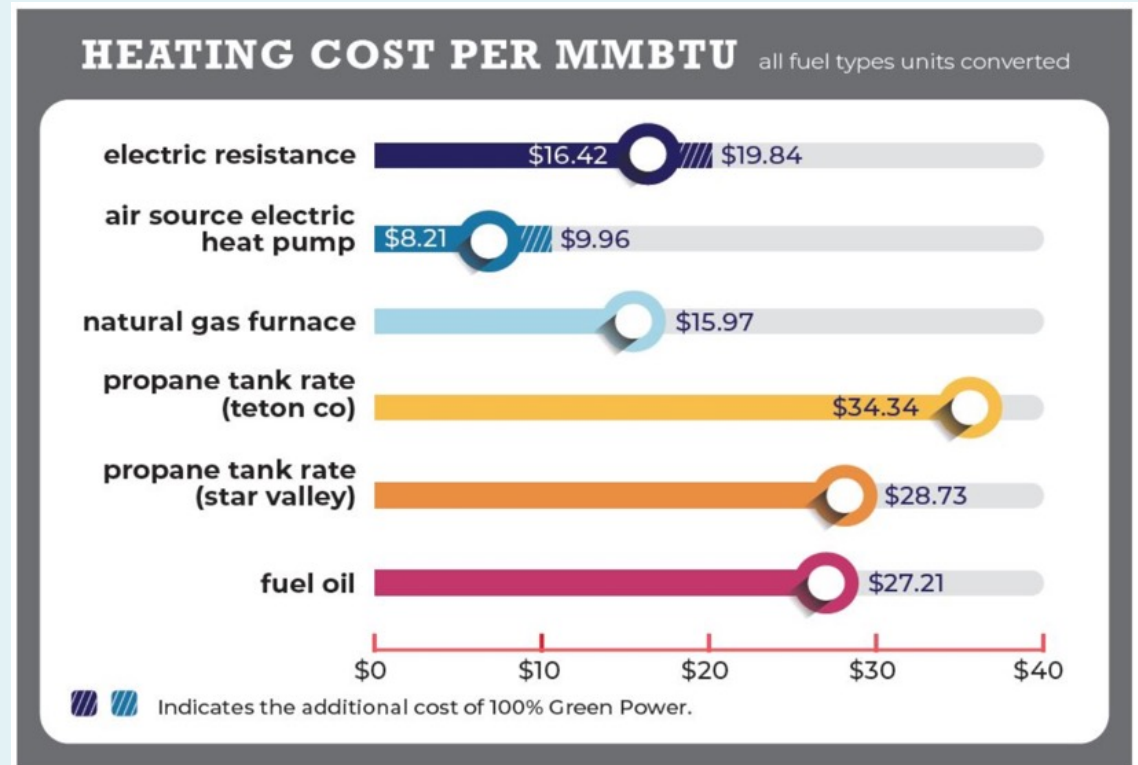
- Induction stoves boil water in 2 min or less.
- Heat pumps also offer cooling and dehumidification.
- EVs are SO FUN to drive!



COST SAVINGS

Consumers can save money on their energy bills by electrifying and by swapping out their appliances.

From Lower Valley Energy (2022):



COMMUNITY

Instead of sending money away and sourcing jobs from afar, electrifying keeps money and jobs inside the community.

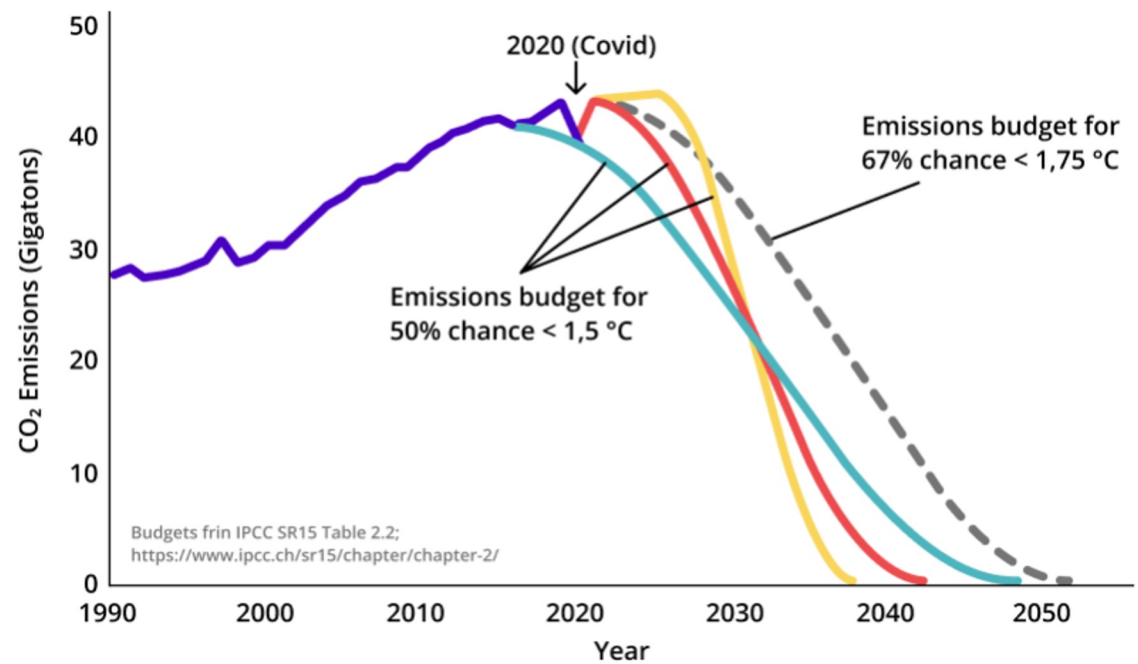
Producing power locally increases resilience too.



Image: Adobe Stock; Rewiring America photo illustration

CLIMATE

Electrification gets rid of fossil fuels and helps us hit our 1.5° target.



CONTROL

Electrifying our lives gives us control back over those 42% of carbon emissions that come from homes and lifestyles.

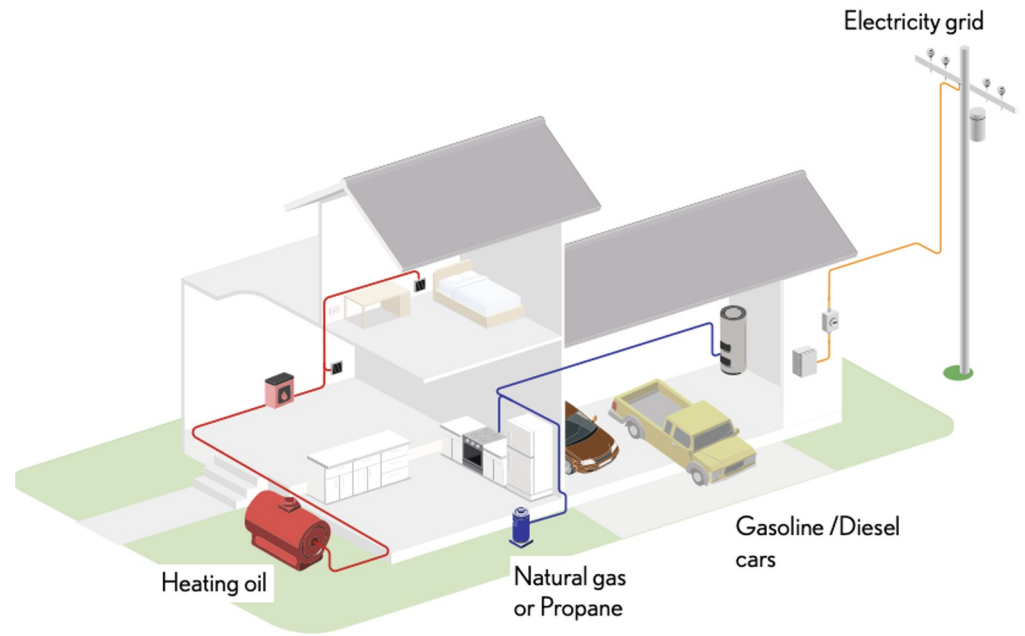


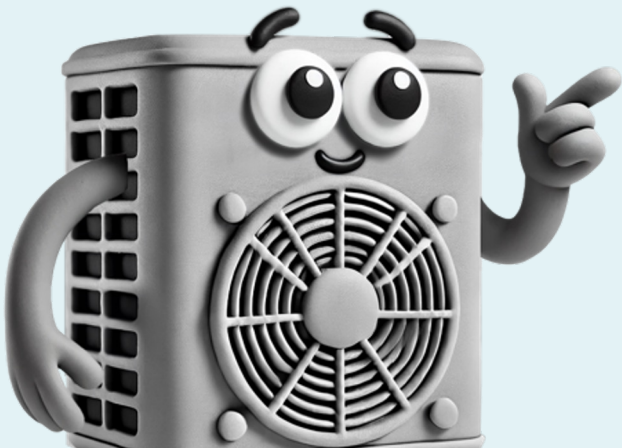
Image: tkktk



Take Action

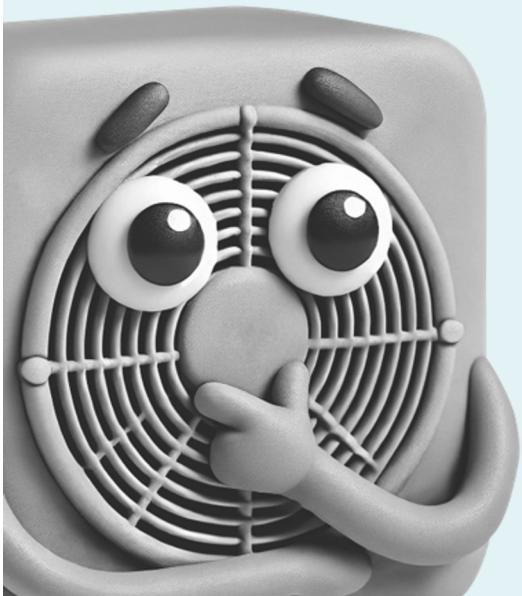
QUESTION

What can *you* do to electrify everything?



What percentage of carbon emissions come from **household & lifestyle** decisions?

What's your guess?



CLIMATE ACTION AT HOME

42%

of our energy-related emissions come from decisions made around the kitchen table.

That's a lot of power.

In your hands.



Image: Adobe Stock; Rewiring America photo illustration

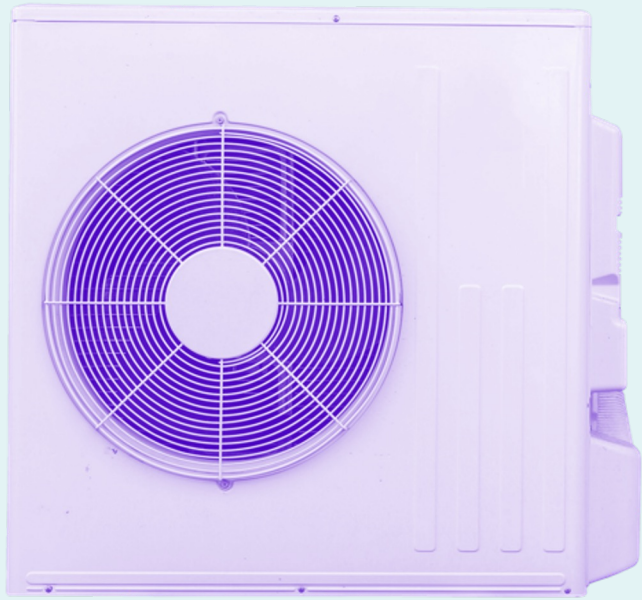
FOR EVERYONE

Starting out on the electrification journey can look different for everyone.

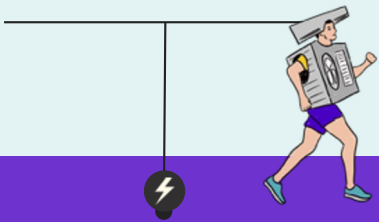
→ Renters can try out using an induction **hot plate** on top of their gas range.



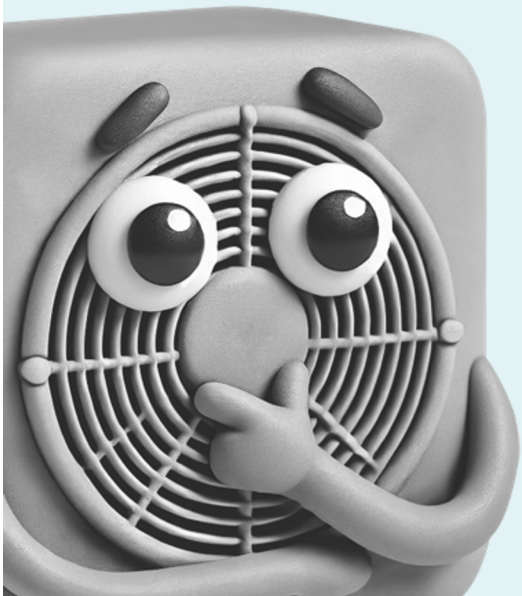
Image: Adobe Stock



Walk the heat
pump path



How much more **efficient** on average are electric machines than fossil fuels-powered ones?



A heat pump is this
much more efficient
than a gas furnace

2-5x

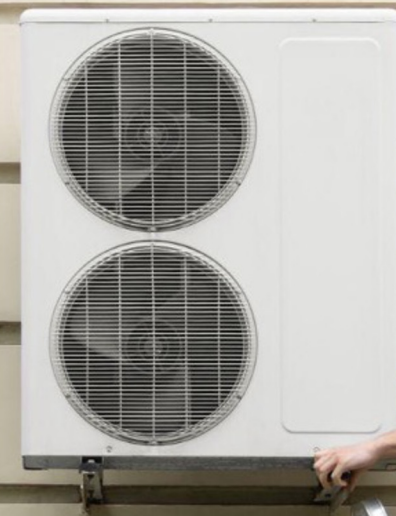


Image: Adobe Stock

WATT'S TRUE?

What is a
heat pump
anyway?



Image: Adobe Stock

A heat pump is a **single electric appliance** that can replace both a traditional A/C and a home heating system.

HOW IT WORKS

The humble heat pump uses electricity to ***move*** heat from one place to another—versus ***generating*** hot or cool air.

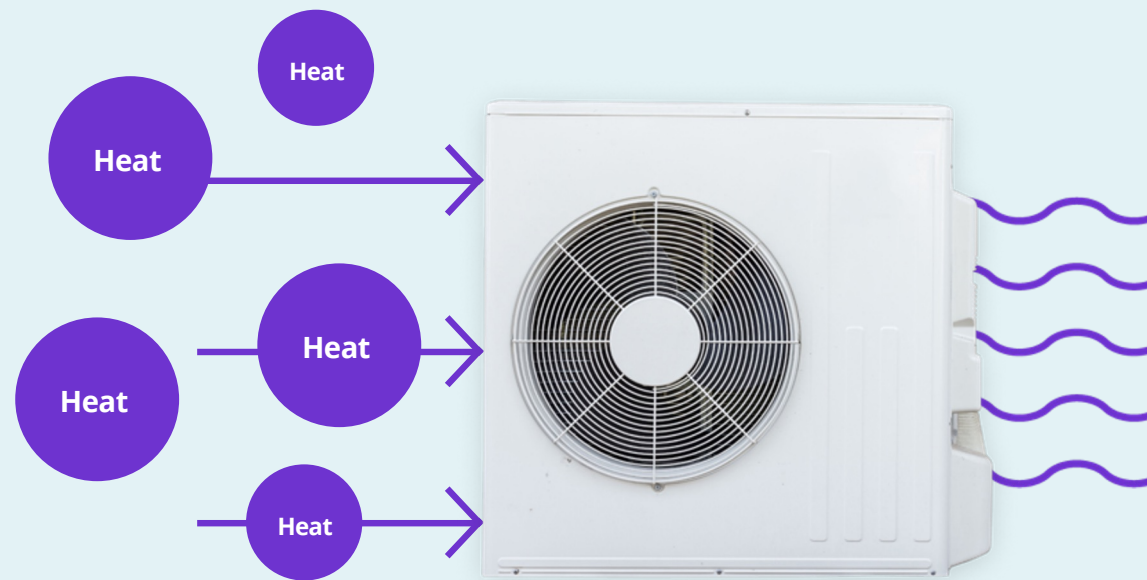


Image: Adobe Stock; Rewiring America photo illustration



A CLEANER CHOICE

98%

of households would
cut CO2 emissions by
installing a heat pump.



Image: Adobe Stock; Rewiring America photo illustration

And let's not forget
heat pump water
heaters!

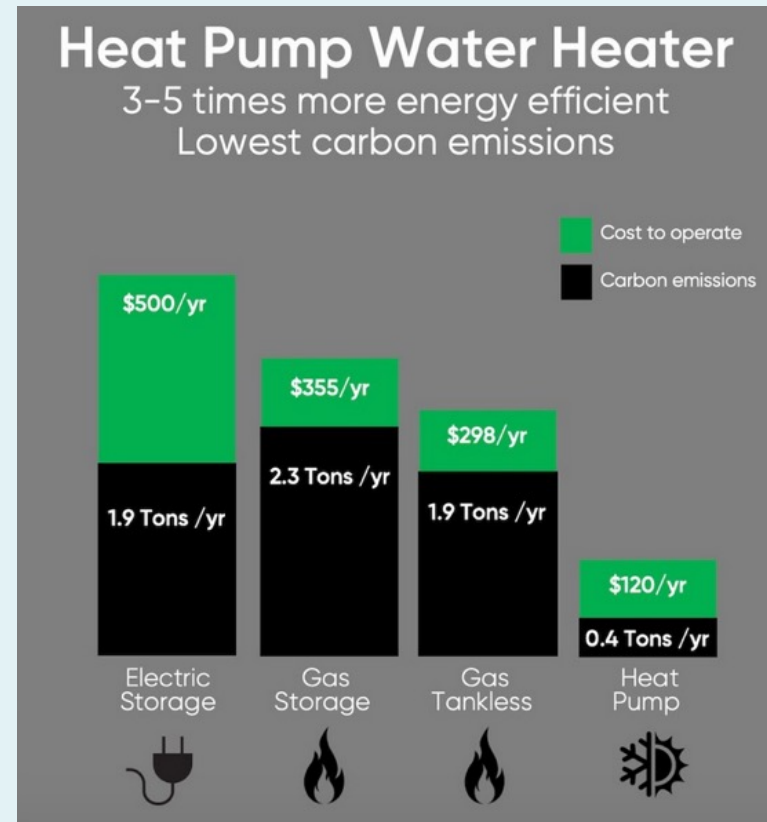
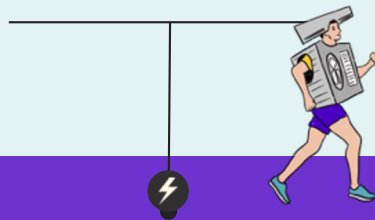


Image: hawana.ca; cost data from Oregon



Get an energy
audit



Have you had an
energy audit yet?
If not, contact
Lower Valley
Energy tomorrow!

Schedule An Energy Audit

Font Size:    Share & Bookmark [Feedback](#)  Print

Lower Valley Energy (LVE) helps provide members with a variety of residential energy audits. LVE will help schedule an Energy Expert to do a walkthrough of your home in an effort to identify any possible energy inefficiencies and answer any questions. LVE will pay \$100.00 towards the cost of the audit. The audit generally costs members anywhere from \$165.00-\$425.00, depending on the type of audit and the home size. The member will receive an assessment and a report.

Blower door testing and thermal imaging are available for a larger fee. Small incentives and loans could be available depending on the energy improvement projects. If any incentives or rebates are available, they will be identified in the audit report. There is potential to earn back the energy audit fee with verified energy savings once a weatherization project is complete.

Please contact LVE's Conservation Department 307-739-6045 with any questions or to schedule an audit or use form below.

<https://www.lvenergy.com/energy-efficiency/schedule-an-energy-audit/>



Wire your home for electrification

[INTRO](#)
[COSTS & BENEFITS](#)
[REBATES & CREDITS](#)
[LEARN MORE](#)
[PROJECT GUIDE](#)
[CONTRACTORS](#)



Whether you're electrifying one appliance or all of them, you'll likely need an electrician to pre-wire your home. With some planning, most homes can electrify everything in their home on their existing panel.

⚡ WHY DO IT?
Switching from fossil fuel appliances to electric appliances will increase the amount of electricity you use to run your home, and many will require a new electrical circuit.

⚡ WHEN?
Before you start any home electrification projects, to save you time and money.

⚡ WHO IS THIS FOR?
Homeowners.

[Read more about wiring your home for electrification](#) ▾

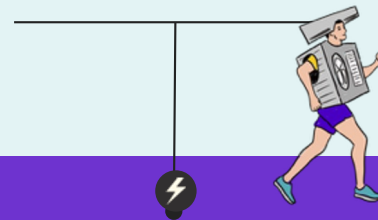
PANEL UPGRADE UPFRONT COST \$2,000+	WIRING UPFRONT COST \$800-\$1,500 per circuit	DIFFICULTY Hard, hire an electrician
---	---	--

BENEFITS
 Enables all other electrification projects



Our Takeaway
Planning ahead for electrification and doing electrical work upfront can make electrification faster, easier, and cheaper for you.

Make your home
heat pump-ready

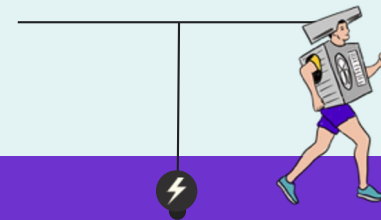


<https://homes.rewiringamerica.org/projects/electrical-panel-homeowner>

Image: Rewiring America



Get HVAC quotes





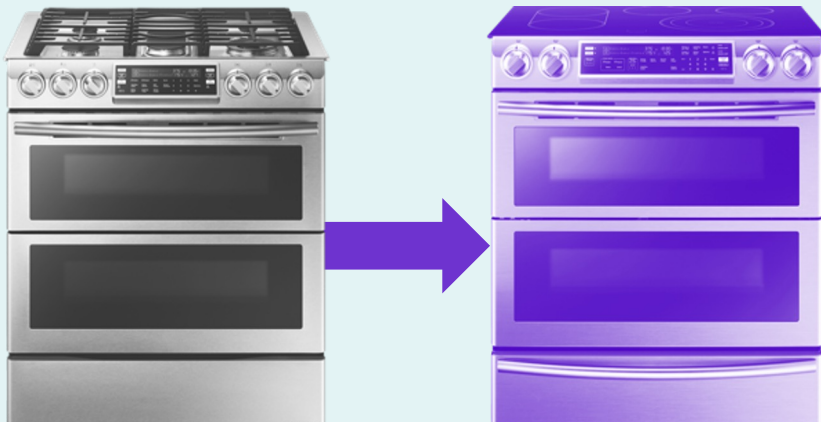
Install your
heat pump



Electrify everything!

1

Replace any machine that currently burns fossil fuels with an electric version.



2

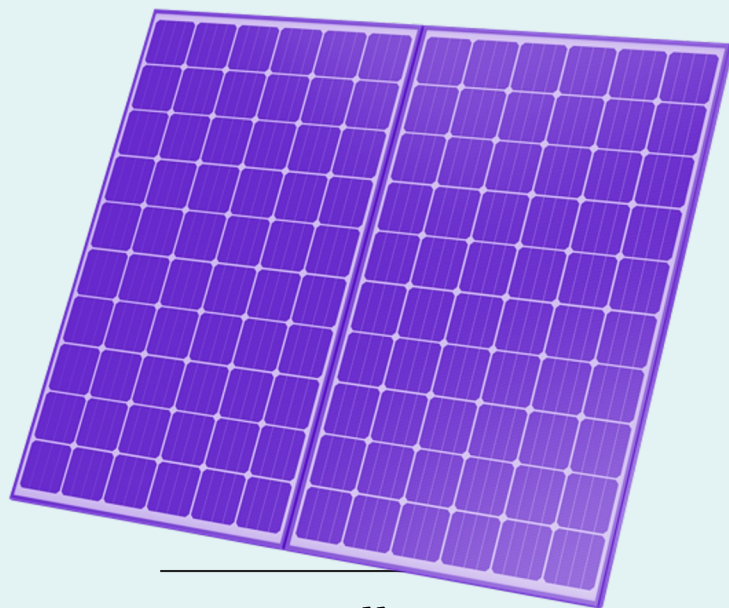
Power that electric machine with clean, renewable energy.



Image: Adobe Stock

Keep going!





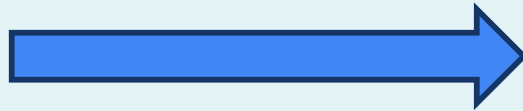
Install
rooftop solar



Raise your voice!



There are
reasons to
act quickly!



Tax credits for key
electrification
measures are
phasing out.



This is POSSIBLE.

We don't need moonshots or miracles. We have the technology to electrify our homes and communities.

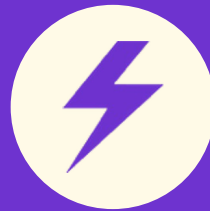


You are here.

The first step is to meet yourself where you are on this journey.



LEARN



DO



SHARE

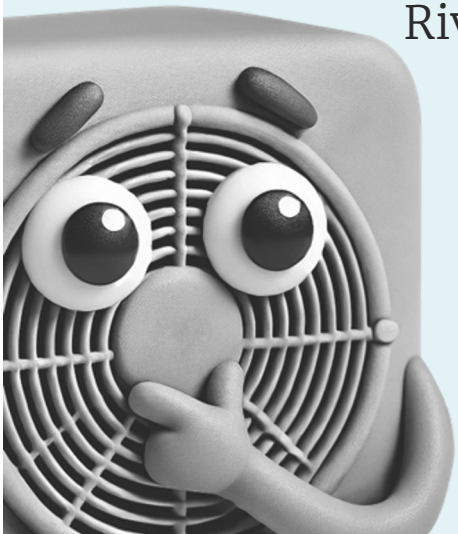
How can I learn more about electrification?

Get Involved

Riverwind Climate Action Network:
JH Climate Action Collective
Riverwind Foundation

Resources

Energy Conservation Works
Lower Valley Energy
Yellowstone-Teton Clean Cities
Rewiring America
ENERGY STAR



THE END

Thank you
for your time!