



Electricity

Coal & Natural Gas

29%

Of Oregon GHG



Transportation

Gasoline / Diesel

35%

Of Oregon GHG



We have to stop burning fossil fuels



Heat

Natural Gas

14%

Of Oregon GHG

Similar or worse than coal

Major source of air pollution

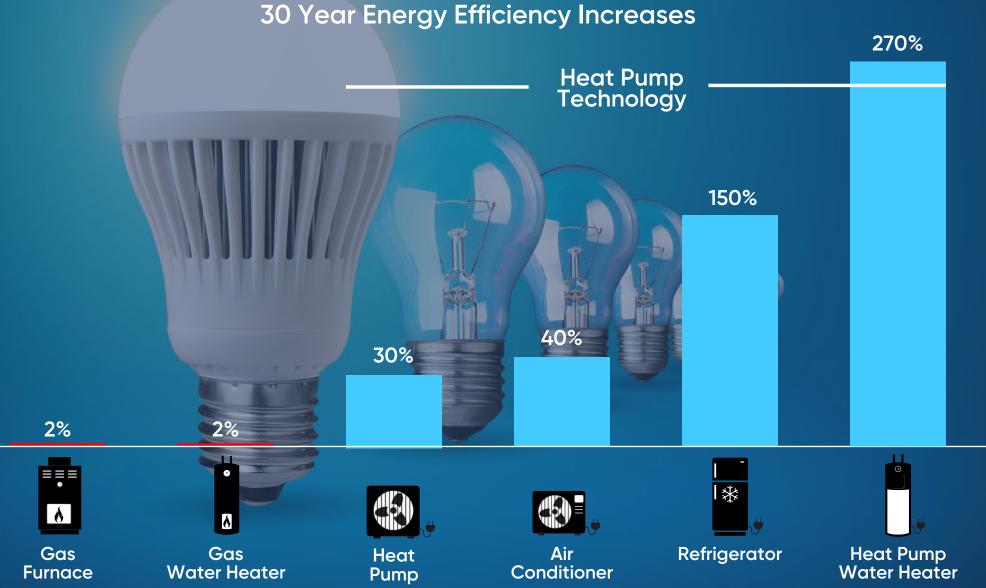
Renewable Natural Gas will not save the day



From Oregon DOE - 2022 Biennial Energy Report

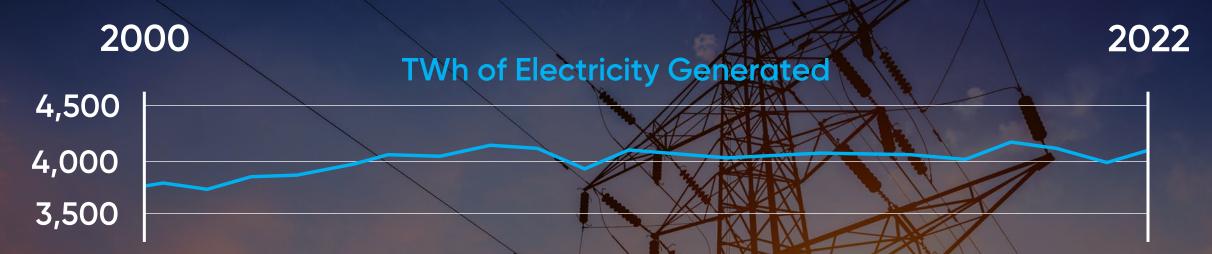


Electric Appliances are now dramatically more efficient



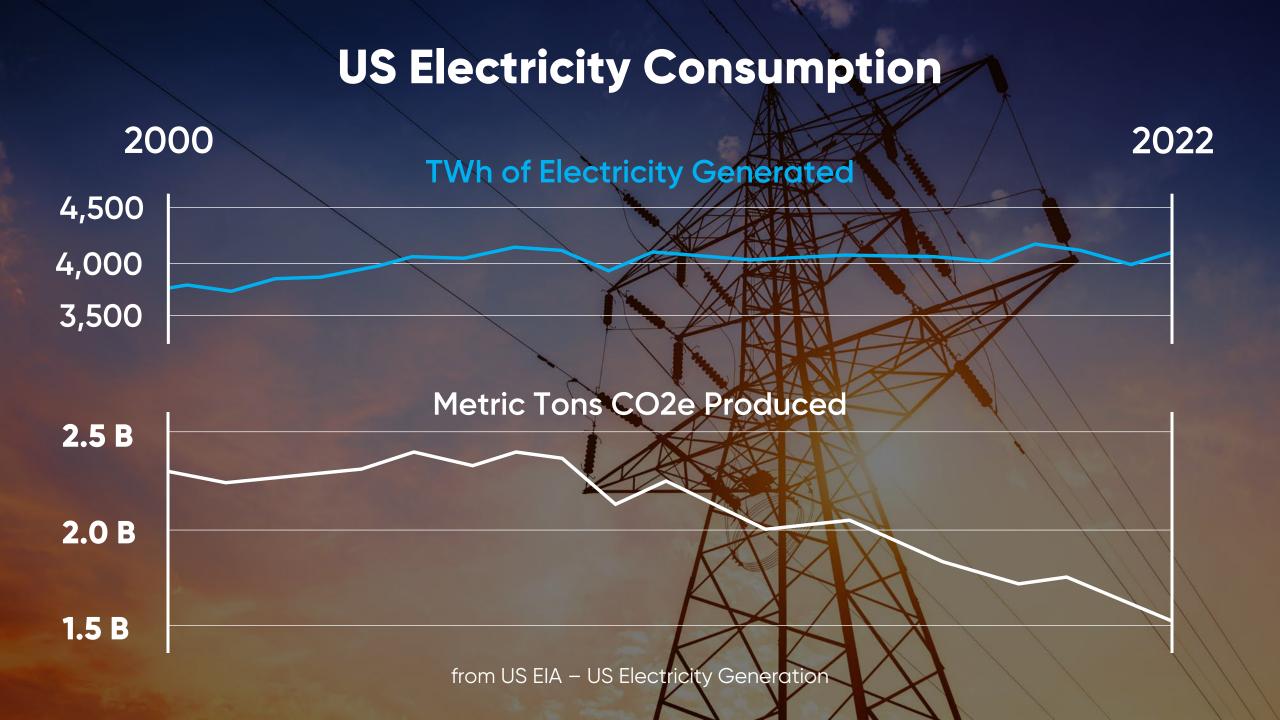






30 Million more people
Larger Homes
15 Million Heat Pumps
2.5 Million EVs
5,000 Data Centers
310 Million Smart Phones

from US EIA - US Electricity Generation



Electrify Everything

A sustainable future where the wind and sun powers **ALL** our primary energy needs



energy cost Savings
cleaner Air
cleaner Water
healthier People
stronger Economy





Gas Car 4-8 Tons CO2e/yr

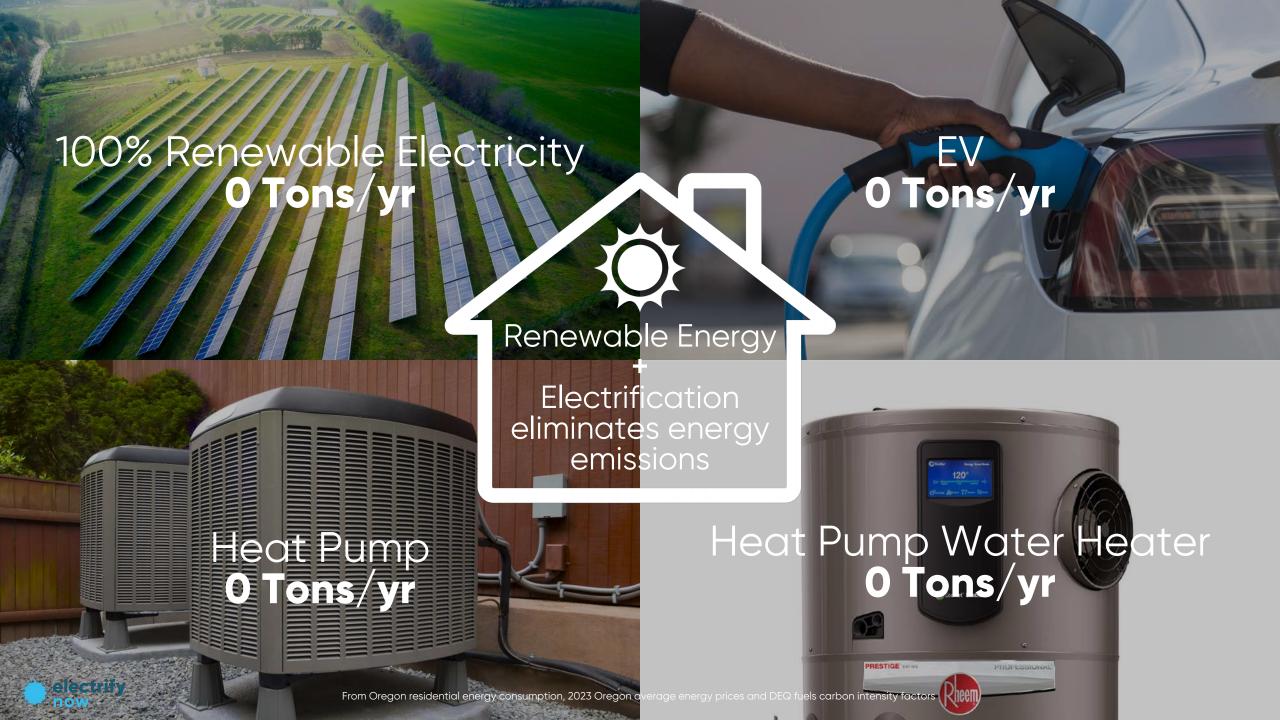
Energy from Fossil Fuels
= 60%
of household emissions

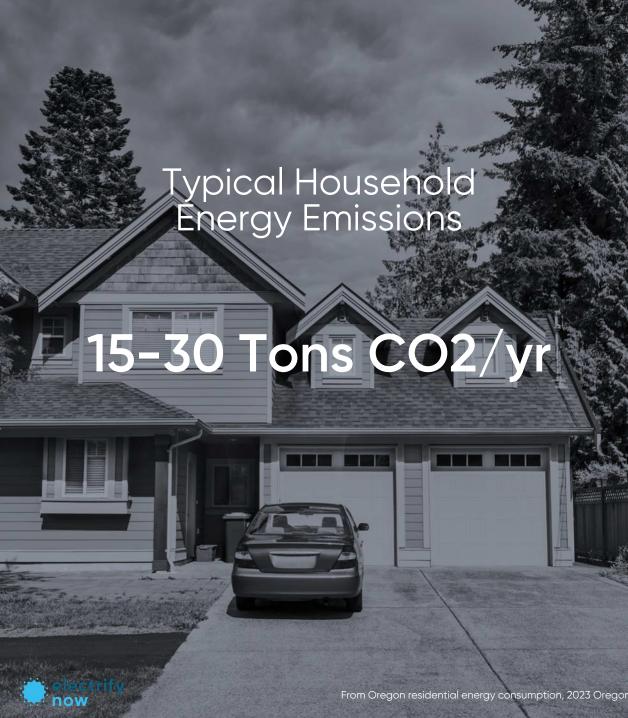
Gas Furnace 4-8 Tons CO2e/yr

LENNOX

Gas Water Heater
1-3 Tons CO2e/yr







Current Grid Mix Energy + Electrification

8-16 Tons CO2/yr





Essential Electric Technologies

Ultra High Efficiency – High Performance – Low Carbon

Heat Pump Water Heater Heat Pump Space Heating/AC Induction Range/ Cooktop Electric Fireplace, HP Dryer Electric Vehicle







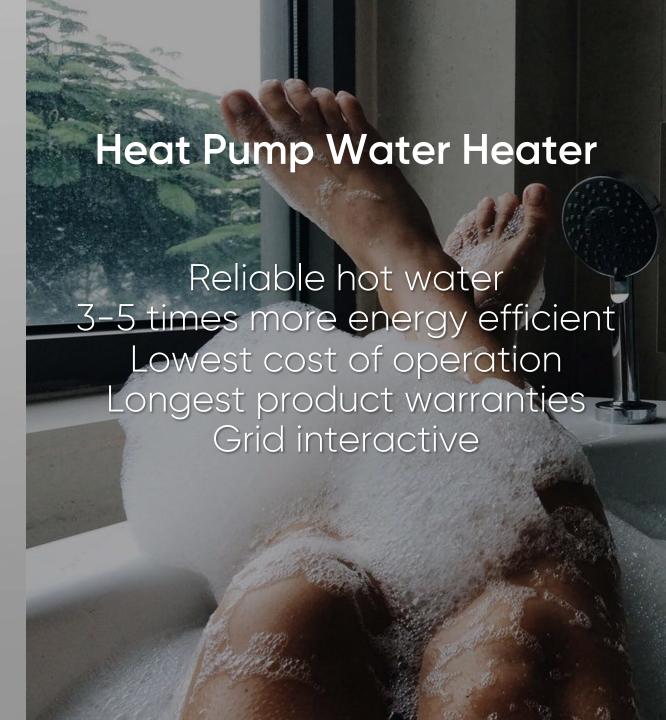














10 year warranties







AO Smith

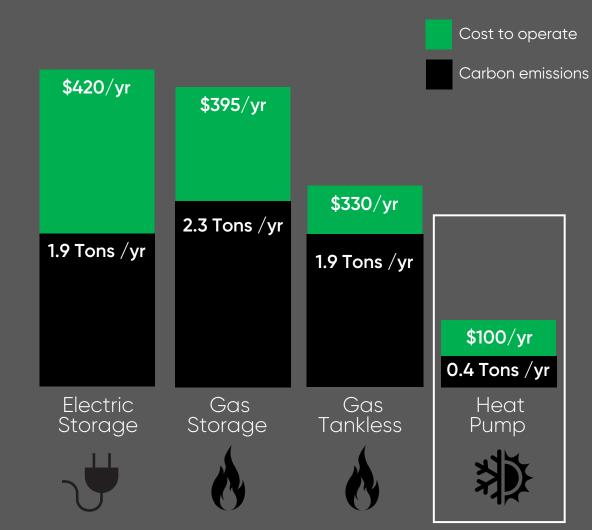


Bradford White



Heat Pump Water Heater

3-5 times more energy efficient Lowest cost hot water Demand-response ready





10 year warranties

AO Smith





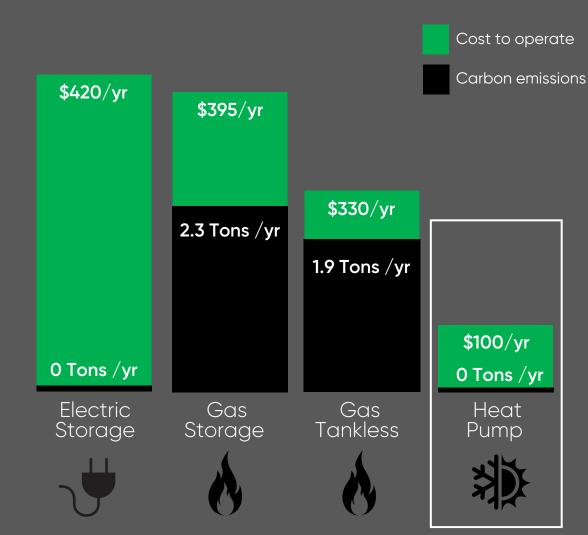


Bradford White



Heat Pump Water Heater

3-5 times more energy efficient Lowest cost hot water With renewable energy















No gas backup needed!

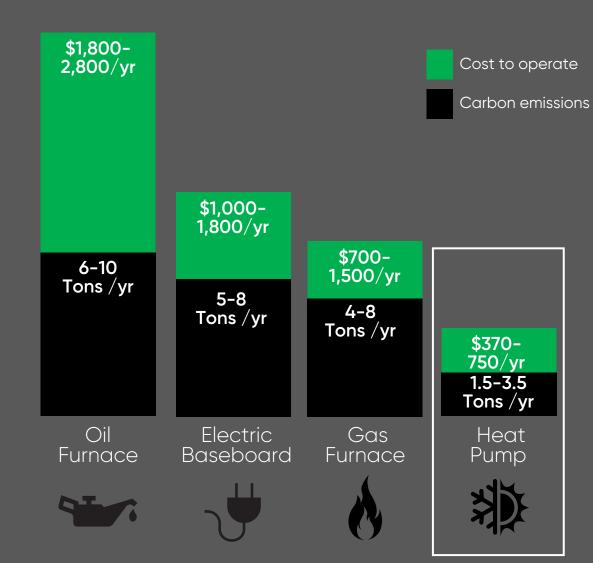




electrify Based on 30-50 MBTU heating load, 2023 Oregon energy prices and fuels carbon inten

Heat Pump Heating/AC

Lowest cost of operations Lowest carbon emissions







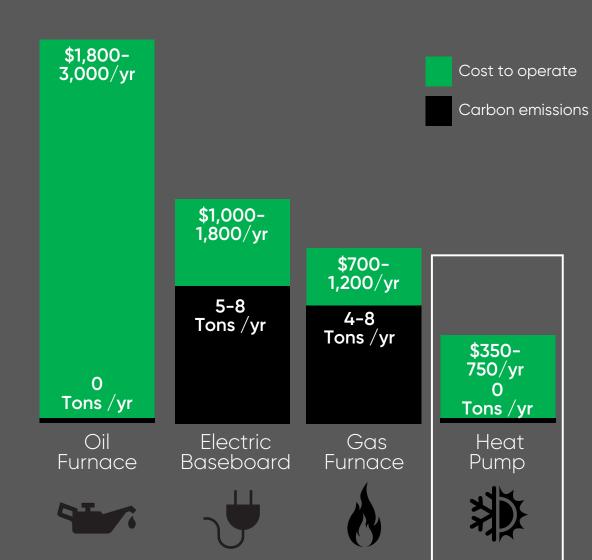
No gas backup needed!





Heat Pump Heating/AC

Cost effective and fewer emissions
With renewable energy













Use of a gas stove increases household air pollution and the risk of childhood asthma and asthma severity.

A single gas stove burner can create higher indoor concentrations of cancer causing benzene than second hand tobacco smoke

Indoor air pollution from gas stoves can reach levels that would be illegal outdoors





Superior Performance

Time to boil 8 quarts of Water





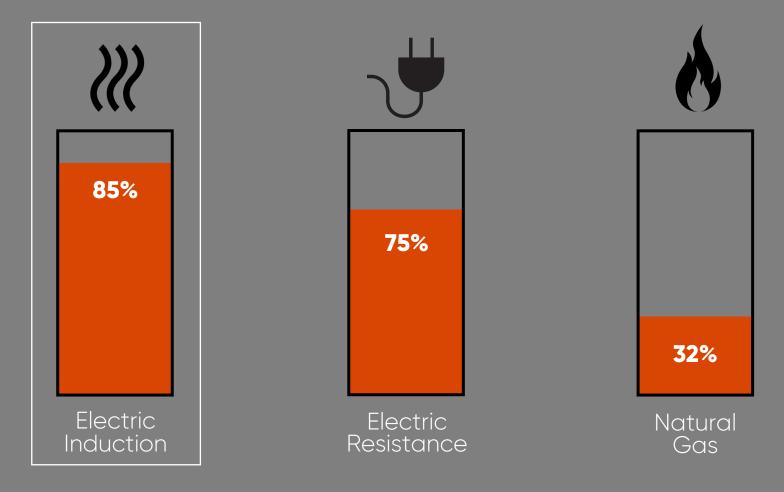






Superior Efficiency

More useful energy delivered





Major Manufacturers

Frigidaire \$650 Samsung \$1,100

LG \$3,000 Café \$4,500

Bosch 36" \$6,000















Induction Hot Plate

- Countertop unit
- All the speed and control of induction
- Cost around \$100 or less



EV's are far more energy efficient More miles for the money

Hyundai Kona



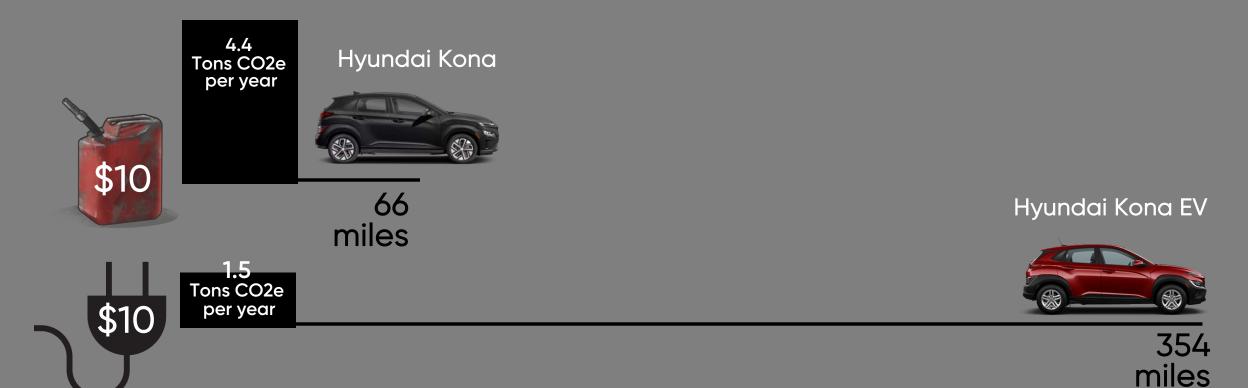
Hyundai Kona EV



354 miles

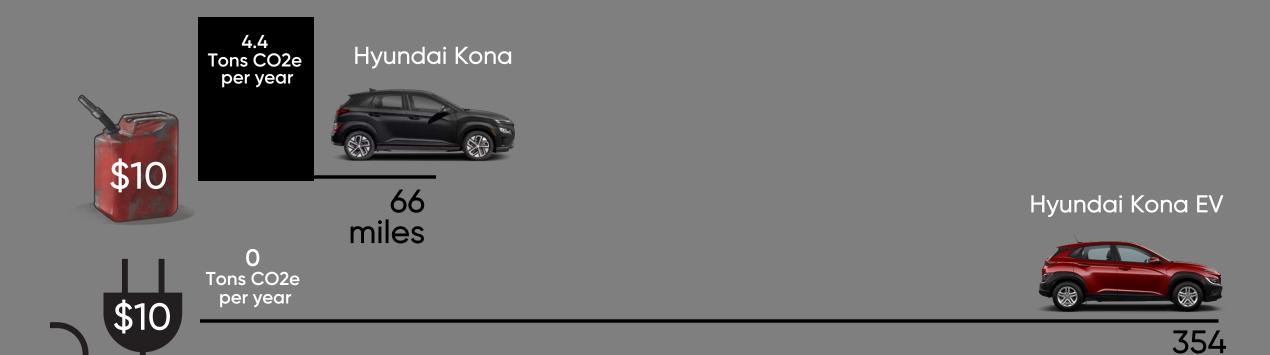


EV's are far more energy efficient Fewer carbon emissions per mile





EV's are far more energy efficient Zero emissions when charging with renewable energy



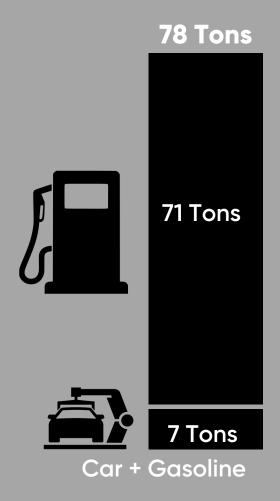


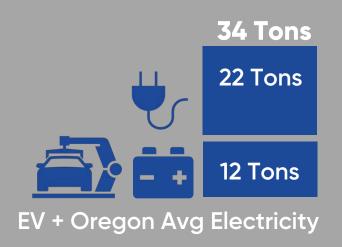
miles

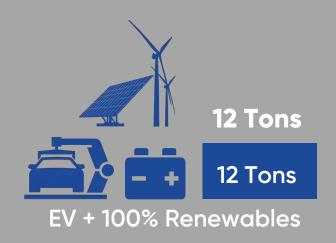


What about the manufacturing the batteries?

EV's produce far lower lifecycle emissions











Tips on how to get started

Get a home energy audit

Weatherize and insulate if needed

You may need electrical upgrades

Get 3 quotes from HVAC contractors Take advantage of incentives





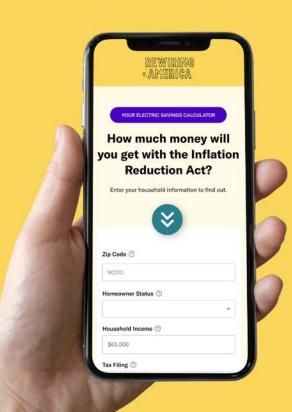






The Inflation Reduction Act "...the single largest climate investment in American history" \$ Billions in rebates, tax incentives, supply chain investments for: Home energy upgrades Clean energy infrastructure Domestic manufacturing

REWIRING AMERICA





Tax Credits 3

ITEM	AMOUNT
Battery Storage Installation	30%
Geothermal Heating Installation	30%
Electric Panel	\$600
New Electric Vehicle	\$7,500
Heat Pump Air Conditioner/Heater	\$2,000
Heat Pump Water Heater	\$2,000
Rooftop Solar Installation	30%
Weatherization	\$1,200
Electric Vehicle Charger	\$1,000
Used Electric Vehicle	\$4,000

Local, State and Federal incentives add up to big savings















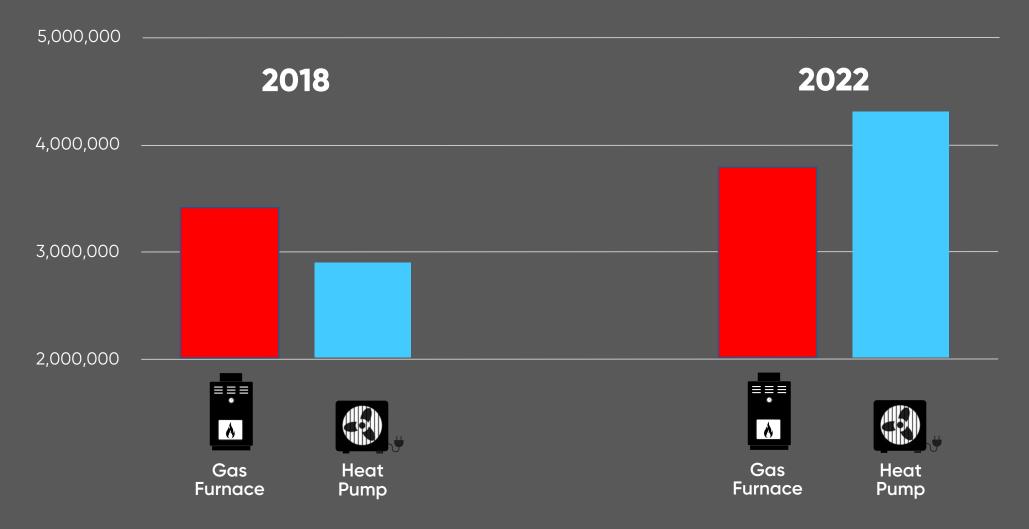






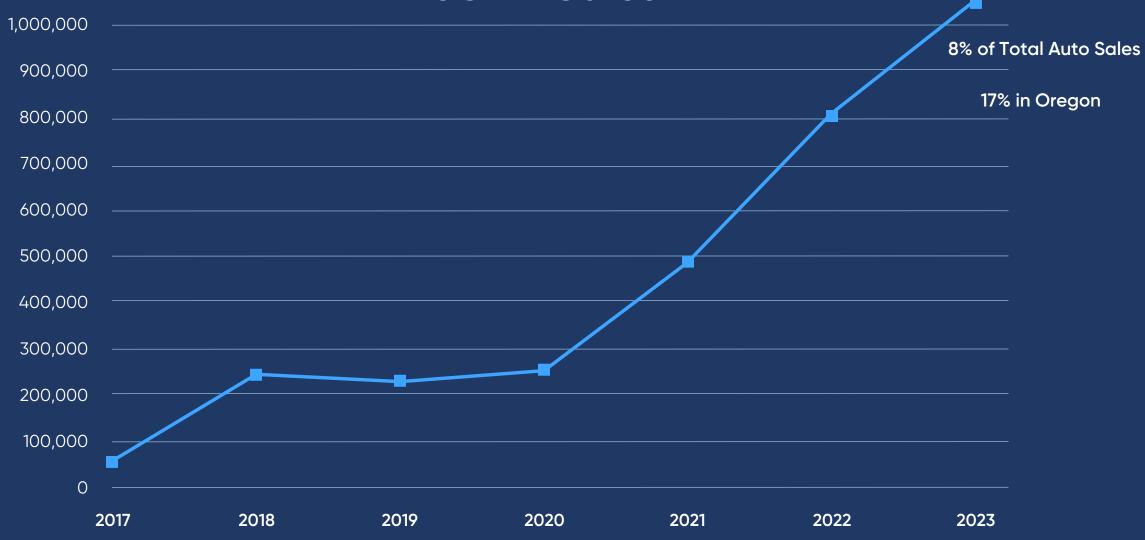


Americans prefer Heat Pumps!





US EV Sales







Take Action!









- 1. Clean up your electric supply
- 2. Electrify your home
- 3. Electrify your ride
- 4. Electrify Everyone









AVOID 3-5 TONS COZONE

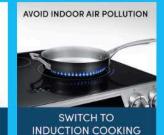


INSTALL A HEAT PUMP

AVOID 4-8 TONS CO2/YR



INSTALL A HEAT PUMP WATER HEATER











HOW TO SURVIVE A POWER OUTAGE



electrifynow.net