



Electrify Everything

Putting communities at the heart of climate solutions

Kristen McDonald
May 20204



Long Time Fan...

Roseville Public School



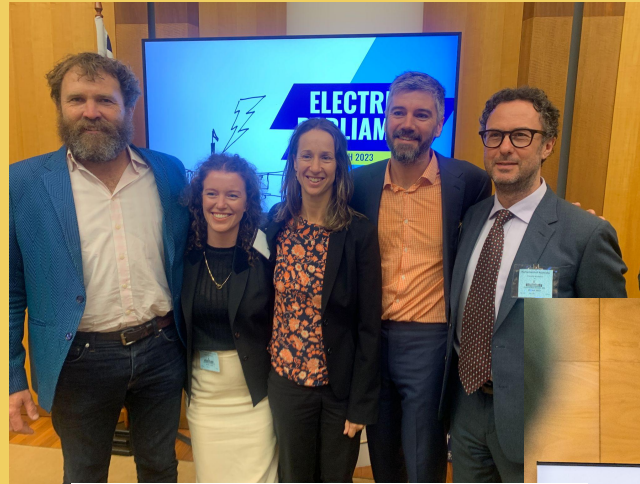
About

About

Rewiring Australia

Electrify 2515

Mum



Electric cargo bike sales booming in northern Illawarra



By Angela Thompson

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About Electrify 2515



About Rewiring Australia

⚡ Non-profit research & advocacy organisation dedicated to representing the people, households and communities in the energy transition.

⚡ **On a mission to electrify everything.** That is, to replace all fossil fuel-based machines with efficient, electric ones powered by renewable energy.



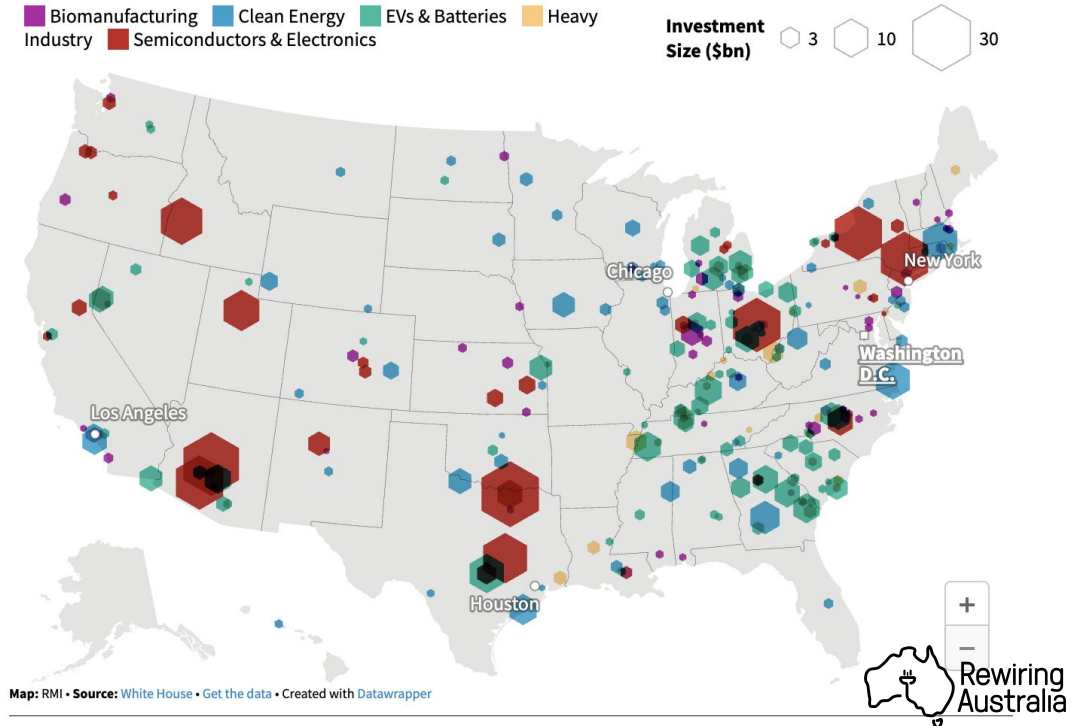
Dr Saul Griffith

- Engineer, scientist, energy expert, visionary
- Rewiring America/Rewiring Australia founder
- Books The Big Switch etc
- Co-designed America's Inflation Reduction Act



US Inflation Reduction Act - 1 year on

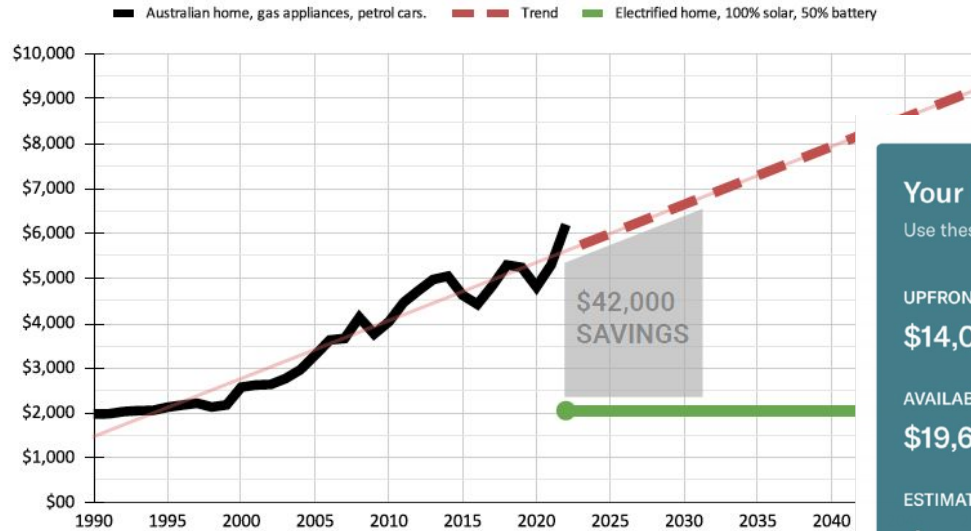
- Govt invested \$369 bil
- Private sector \$240 bil investment in clean tech from private sector
- 170,000 new jobs created. Expected to grow to 1.5 mil over the decade.
- 91 new battery manufacturing sites, 65 new or expanded EV manufacturing facilities, 84 wind and solar manufacturing announcements.



US Inflation Reduction Act - 1 year on

- \$30,000 tax credits to electrify homes
- Projected to save \$2 - 38bil on their electricity bills over a decade
- Reduce greenhouse gas emissions by approximately 1 billion tons in 2030

Australian home running costs | Conventional versus electrified



Your Personalized Incentives

Use these any time in the next 10 years.

UPFRONT DISCOUNTS

\$14,000

AVAILABLE TAX CREDITS

\$19,672

ESTIMATED TOTAL INCENTIVES

\$33,672

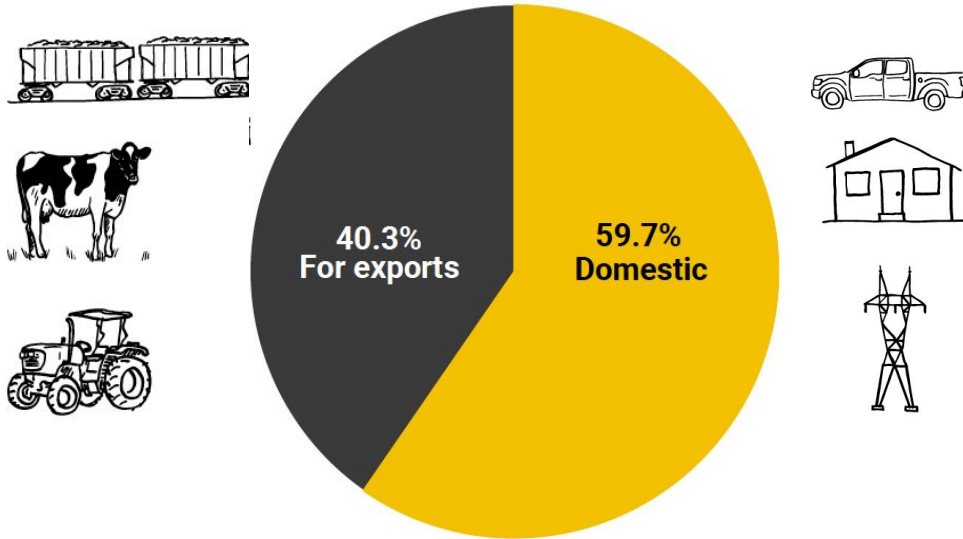
ESTIMATED BILL SAVINGS PER YEAR



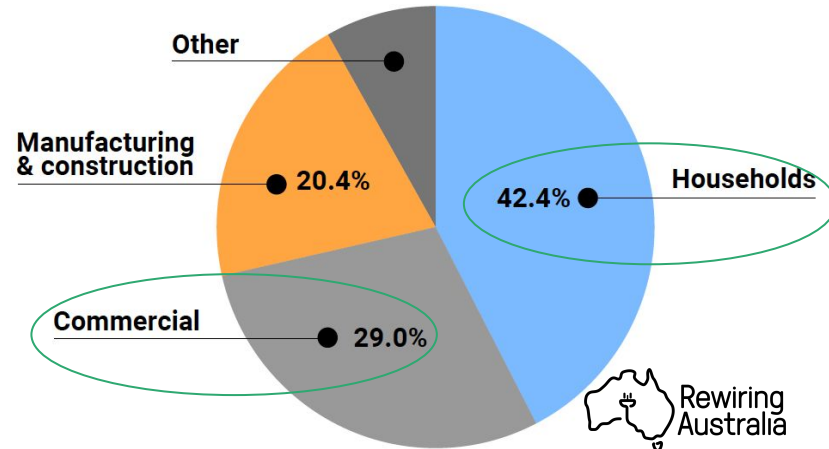
Why electrify everything?

We need to replace fossil fuels urgently

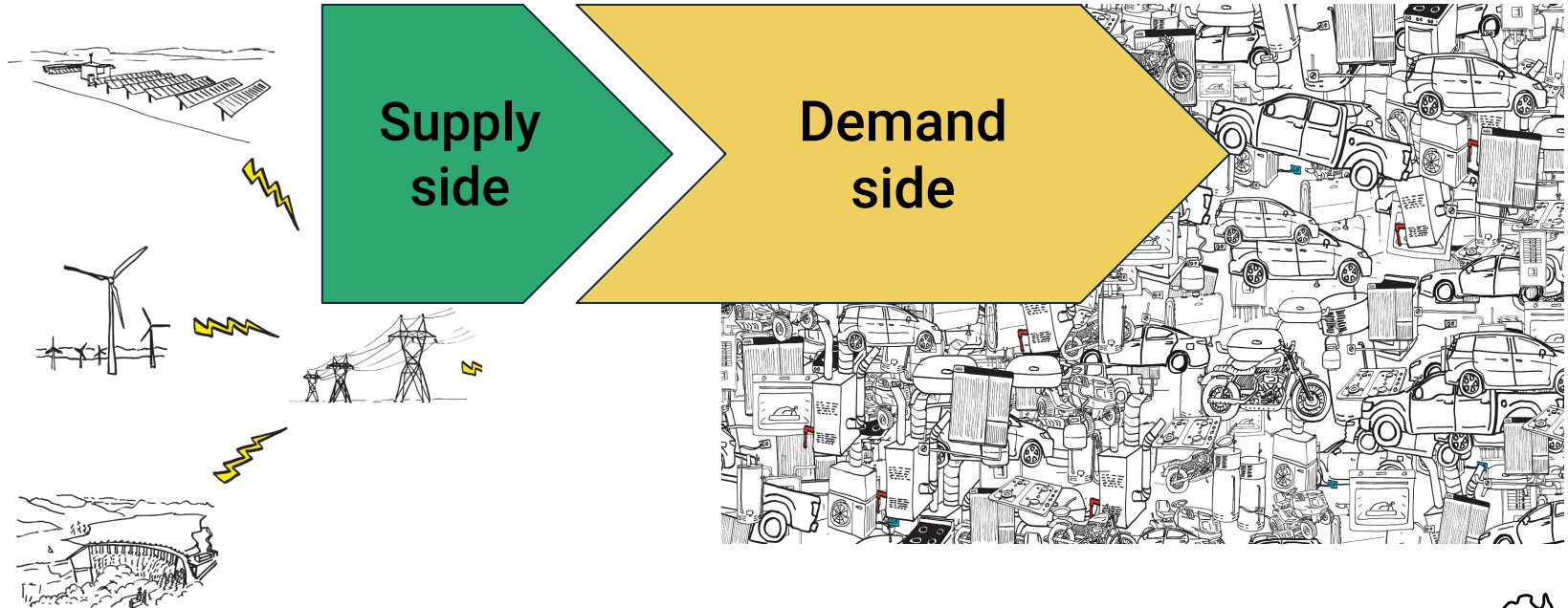
Australian emissions



Domestic emissions

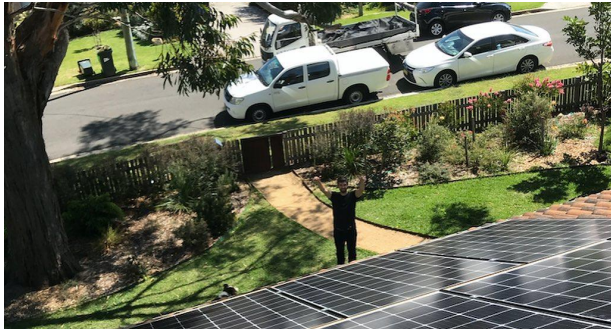


We can shape the system



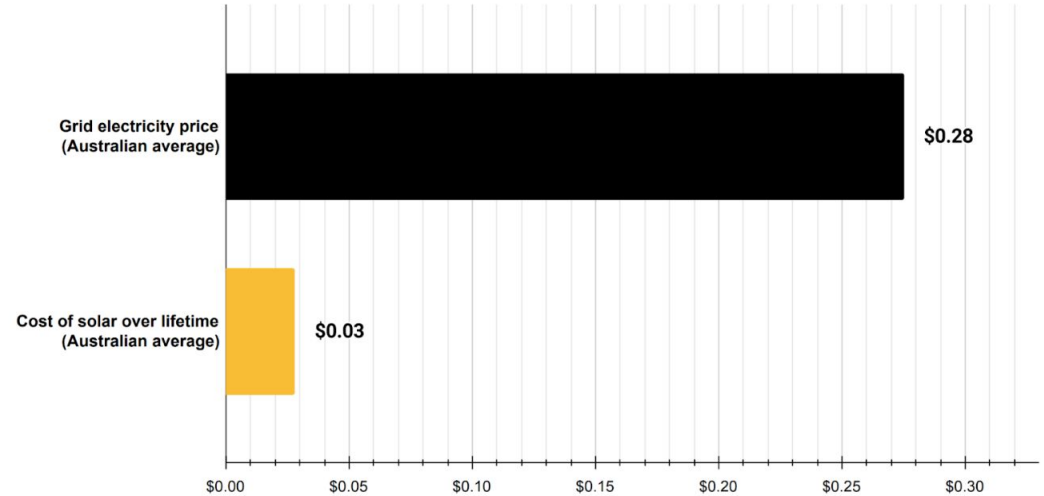
We are the lucky country

Australia is the first country in the world where electrification will work



Cost of grid electricity vs solar electricity (kWh)

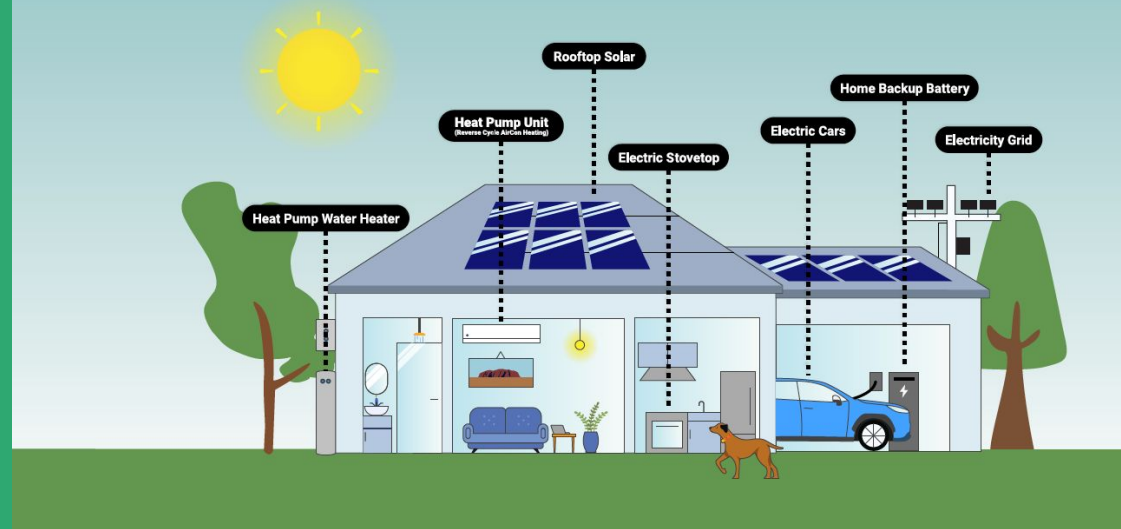
Solar capacity factor of 17.14%, \$838 /kW 25 year lifetime. SolarChoice & AEMC.



It benefits households

- Cheaper bills
- Healthier & safer homes
- More energy independence
- Reduced carbon footprint

Savings of \$3,000-5,000 per year.



It benefits Communities

- More resilient
- A more responsive grid
- Creates local jobs
- Supports local economy

2022 (2515 spending)



\$14,856,167 fossil fuel spend.
\$4,124,527 grid electricity spend.



How?

**Where we
buy our
electricity**

**How we
cook our
food.**

Dinner table decisions

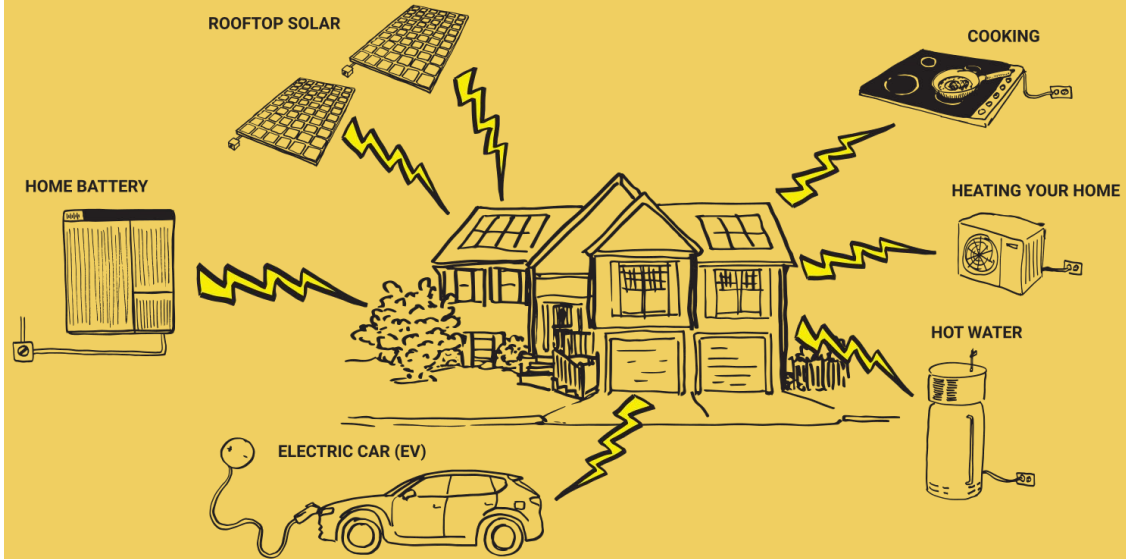
**How we get
to work,
school, play.**

**How we heat
our homes
and water.**

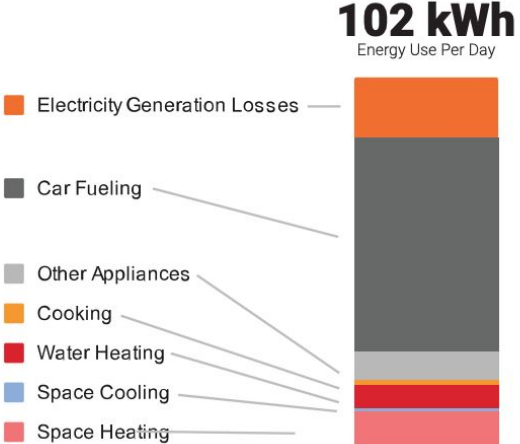
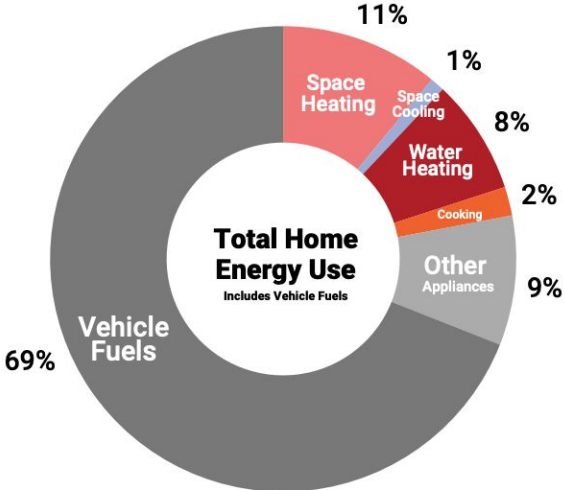
Get off fossil fuels

- ⚡ Water heater
- ⚡ Space heater
- ⚡ Cooktop
- ⚡ Vehicle
- ⚡ Rooftop solar
- ⚡ Battery storage

Electrified Home

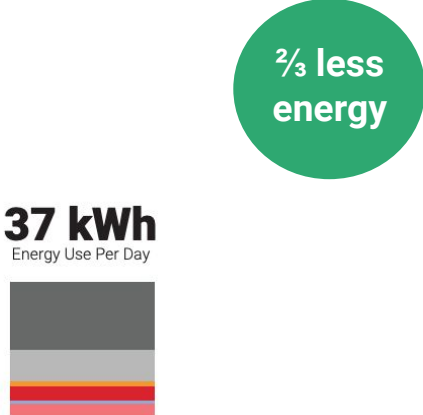


Electrification is efficiency



AVERAGE HOUSEHOLD

CURRENT "AVERAGE"
AUSTRALIAN HOUSEHOLD

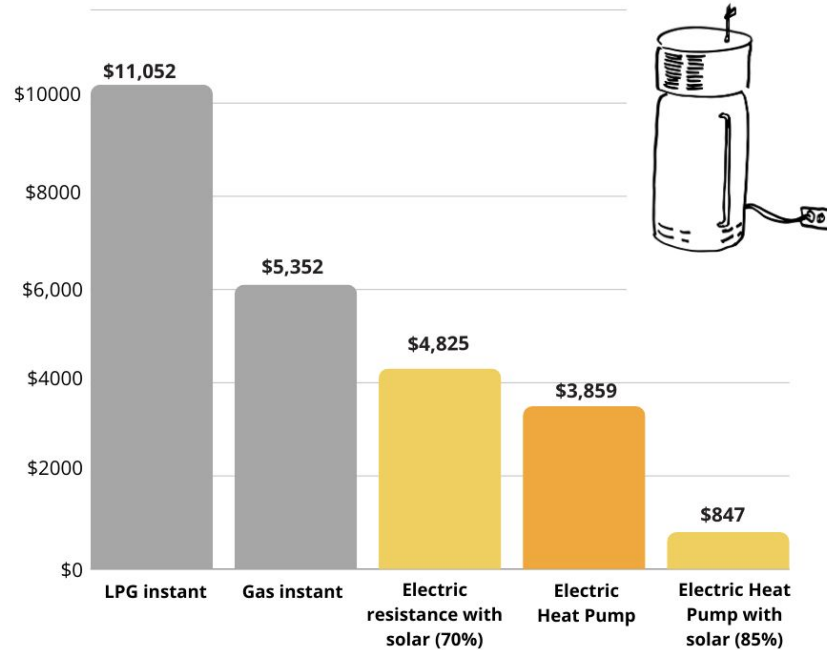


ELECTRIFIED HOUSEHOLD

ELECTRIFIED "AVERAGE"
AUSTRALIAN HOUSEHOLD

WATER HEATERS | RUNNING COSTS (LIFETIME)

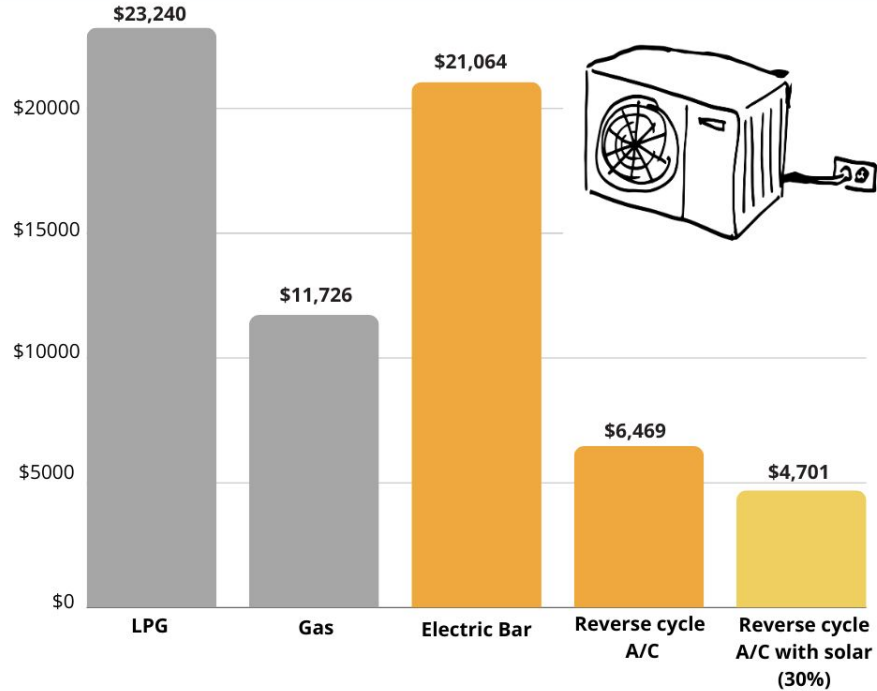
Bill comparison over 15 years, average Australian water heating needs



Sources: Rewiring Australia analysis. Residential Baseline Study 2021. 2023 electricity, gas, LPG and solar prices.

SPACE HEATERS | RUNNING COSTS (LIFETIME)

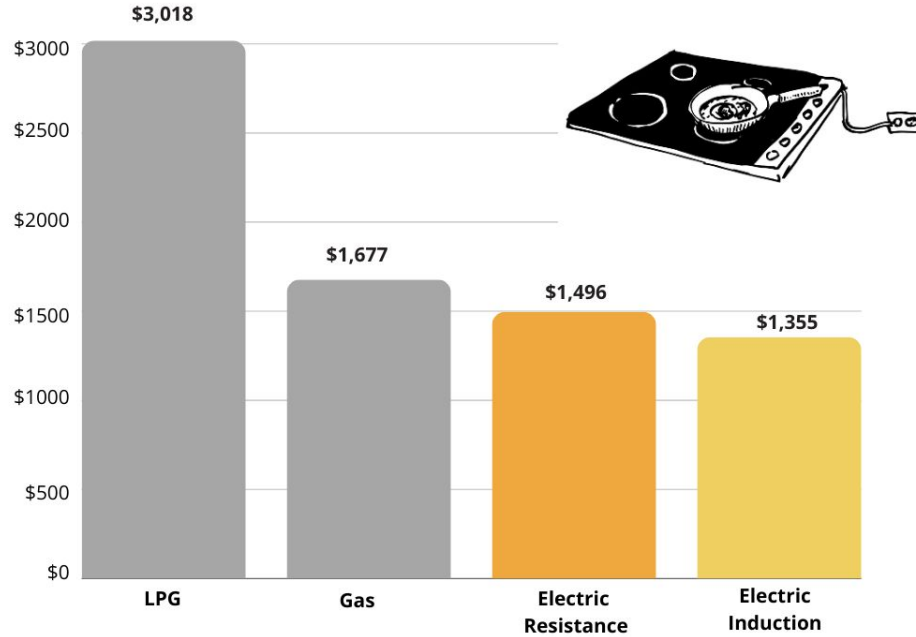
Bill comparison over 15 years, average Australian energy use



Sources: Rewiring Australia analysis. Residential Baseline Study 2021. 2023 electricity, gas, LPG and solar prices.

COOKTOPS | RUNNING COSTS (LIFETIME)

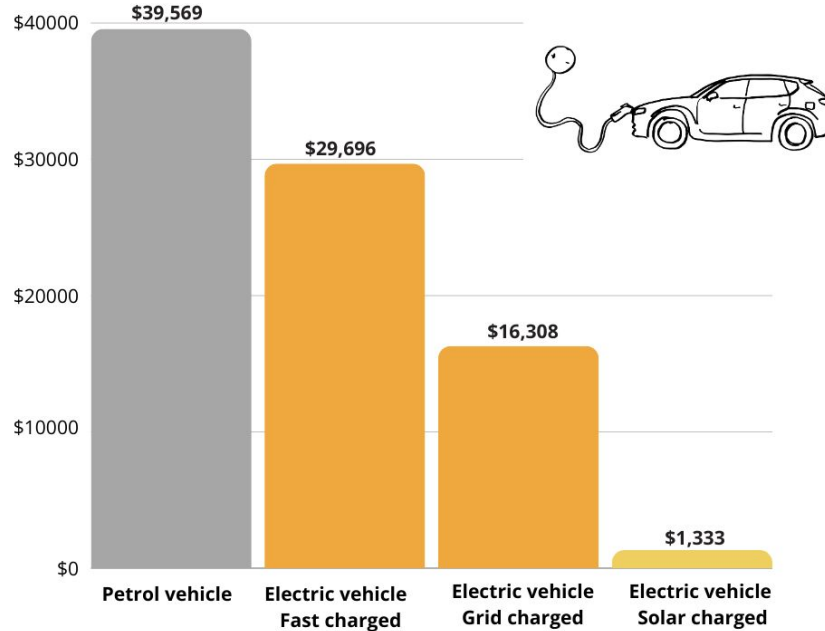
Bill comparison over 15 years, average Australian energy use



Sources: Rewiring Australia analysis. Residential Baseline Study 2021. 2023 electricity, gas, LPG and solar prices.

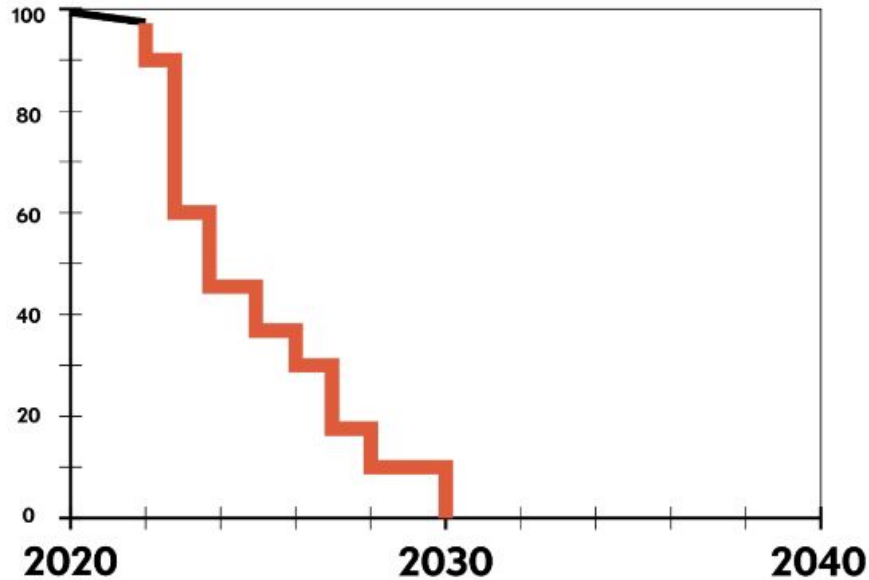
VEHICLES | RUNNING COSTS (LIFETIME)

Driving cost comparison over 15 years, average Australian driving



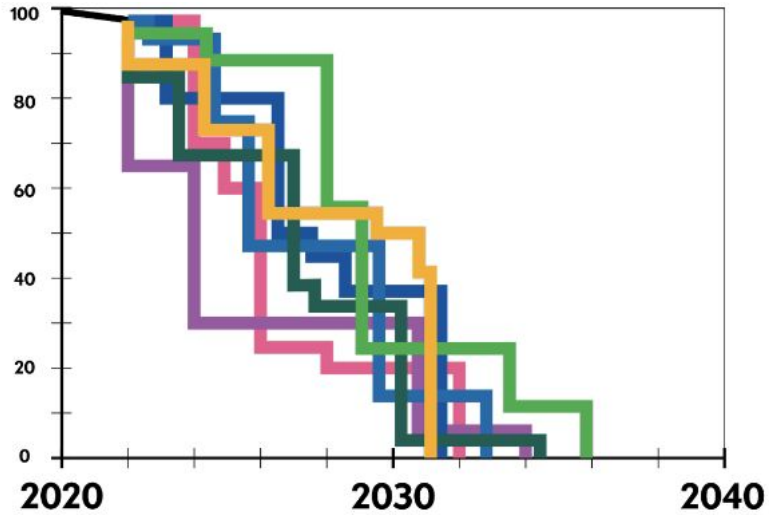
Sources: Rewiring Australia analysis. Residential Baseline Study 2021. 2023 electricity, gas, LPG and solar prices

Make a plan: for your “cold shower day”

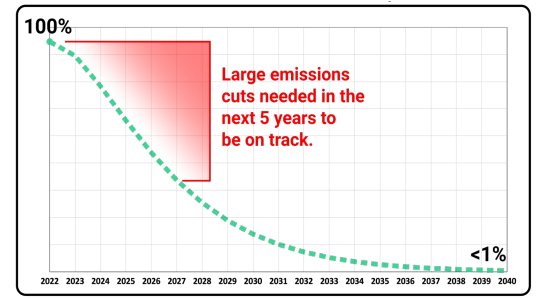
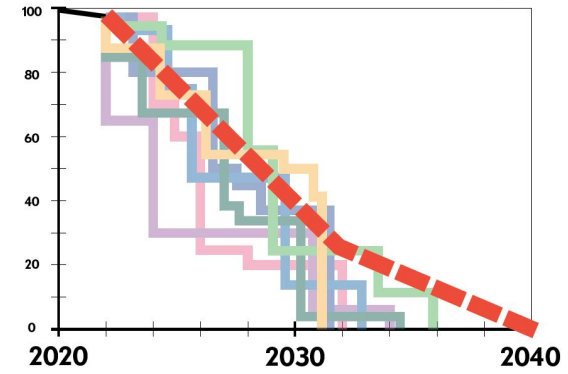


E-bike	2022
Car 1	2023
Main Panel	2023
Rooftop Solar	2024
Green Electricity	2025
Water Heater	2026
Electric Cooking	2027
House Battery	2027
Car 2	2028
Space Heater	2030

Help friends, family and community



- Household A
- Household B
- Household C
- Household D
- Household E
- Household F
- Household G
- Household H



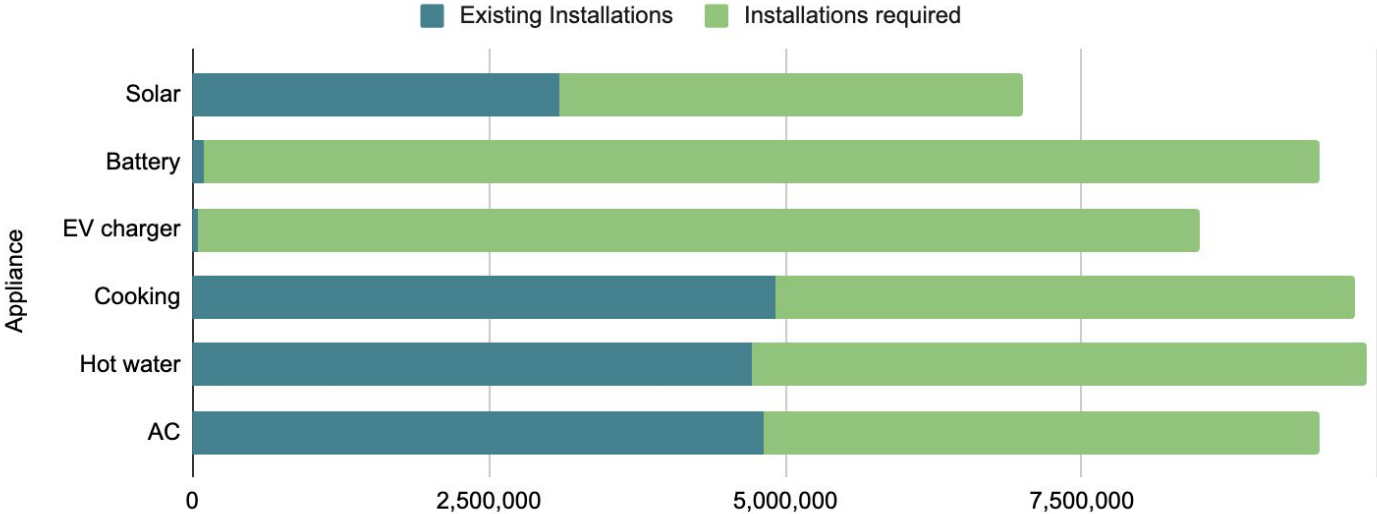


Helping everyone electrify

Rewiring Australia's Goal

10-15 year lifespan - need the changes now

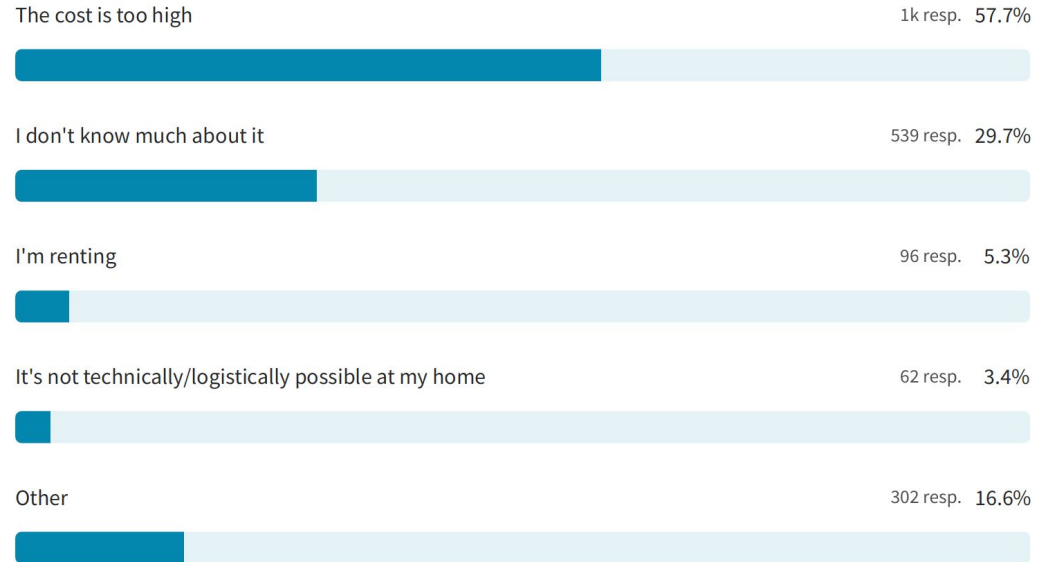
36 million electrification appliances to install



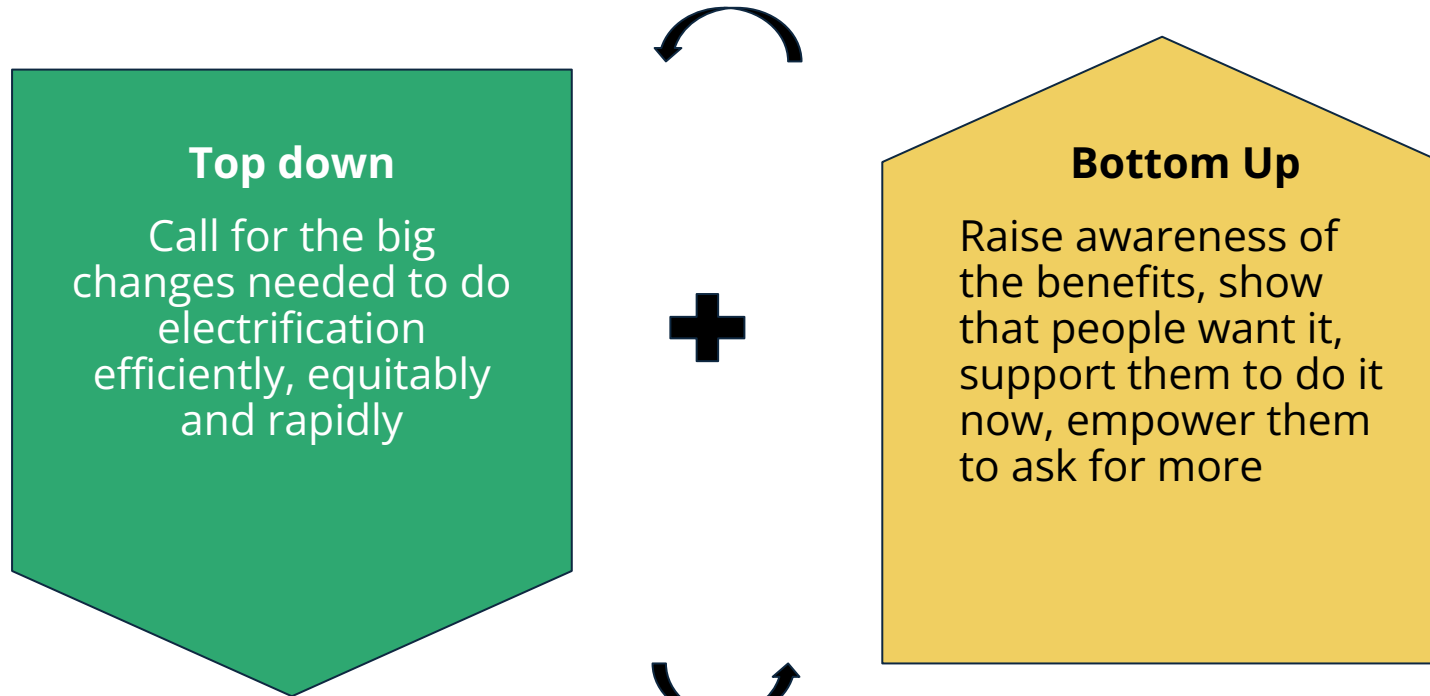
1 million new gas appliances sold every year

Barriers to electrification

1. **Upfront cost**
2. **Lack of knowledge/trust**
3. Current machine doesn't need replacing
4. Renter
5. Strata
6. Time



Our Approach



Advocacy

1. **Everyone can afford it** -
Electrify Everything Loan
Scheme
2. **Renter reform** - Finance
+ mandatory disclosure
+ minimum efficiency
3. **Electricity Market
Reforms** - Fairer system
for households



Email Your MP

COMMUNITY ACTION IS CRITICAL



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NEWS

Wellham reckons Wagga could well electrify everything

Dan Holmes

FROM where Ed Wellham is sitting, net zero looks pretty good.

His home is powered by a 25 kilowatt solar array, generating free power whenever the sun shines.

It also helps heat his large swimming pool for about 80 per cent less than gas.

Mr Wellham said it took a lot of planning to power his home by renewables. But now, he wants to help the



money, and the planet. I'm on that journey too."

Now, Electricity Wagga will partner with Australia's biggest renewable energy advocate, Rewiring Australia, to help get the message out.

They were one of 10 local advocacy groups selected to help electrify their local communities.

The program has local goals identified by each group, such as increasing the amount of solar PV and hot water heat pumps in the



Rewiring
Australia

Thank you

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