
Climate Forum

Residential Energy

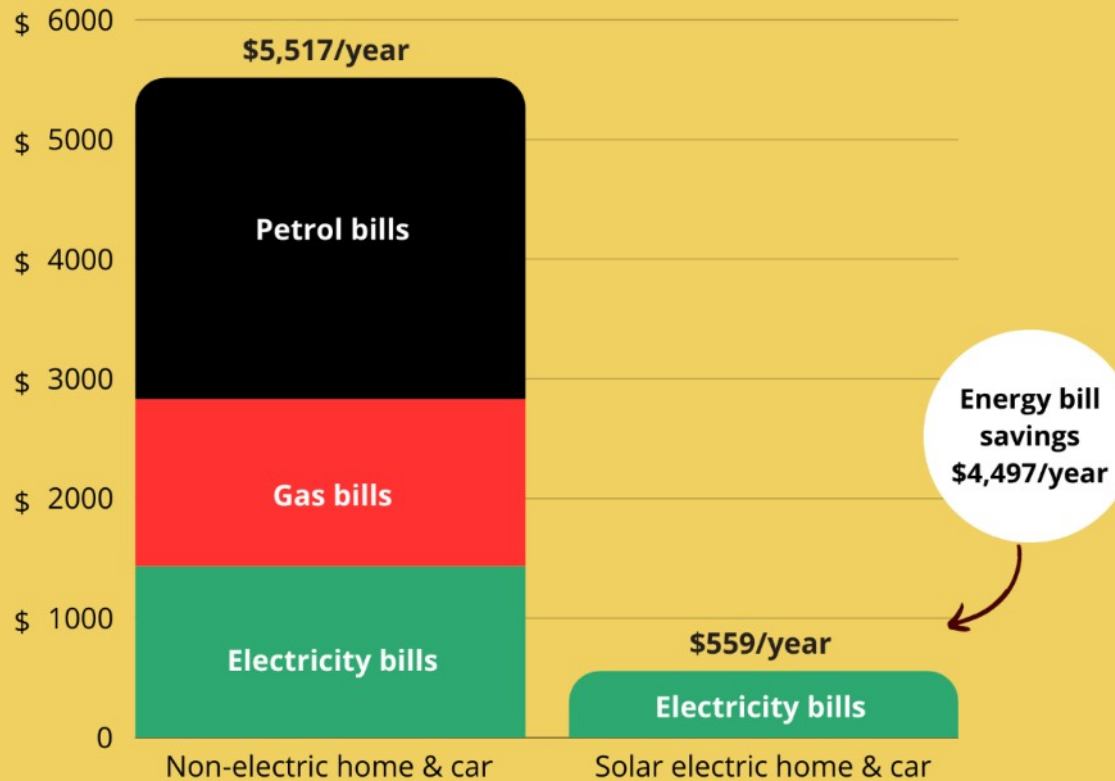


Overview

- My motivation to go all electric
- Apartment living and rental issues
- A summary of my process to electrify
- What our Council can do to assist us

My Motivation

GAS & PETROL HOME **V** SOLAR & ELECTRIC HOME



Example home energy costs using average Australian energy use.
Gas space heating, water heating & cooking; petrol cars & no solar; Versus electric appliances, cars, solar and battery.



Housing in Port Phillip

VIC.GOV.AU | Solar Victoria

Home > Programs > Solar for Apartments Program

Solar for Apartments

The Solar for Apartments program provides funding of up to \$2,800 per apartment for solar panel installation.

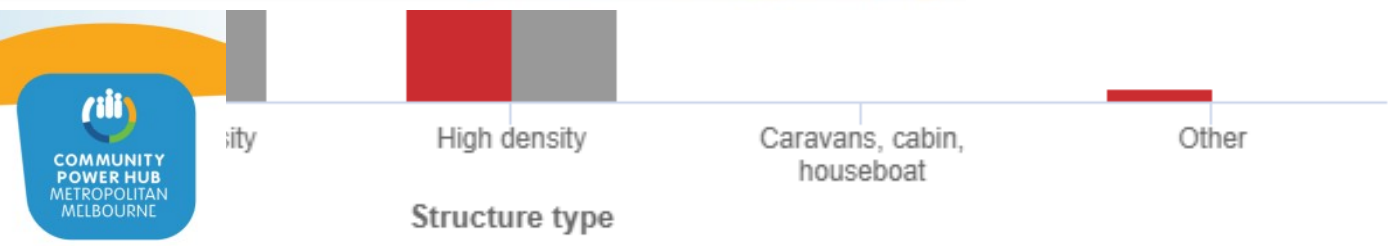
Round 1 application closed and Round 2 applications will open in August 2024.

Guide to Solar for Apartments



UNLOCKING SUSTAINABLE STRATA

A GUIDE TO ELECTRIFYING YOUR APARTMENT BUILDING OR TOWNHOUSE



Choose *GREEN* energy

Welcome

An independent Vic

To get the most out of this t

asked Questions

language

Get started

What are you looking for

 Electricity

www.com



Draught Proofing

FIND & FIX GAPS



<https://www.portphillip.vic.gov.au/council-services/sustainability-and-climate-change/take-action/diy-draught-proofing-videos>

gaps between walls
or floors & skirting boards

gaps between
floorboards

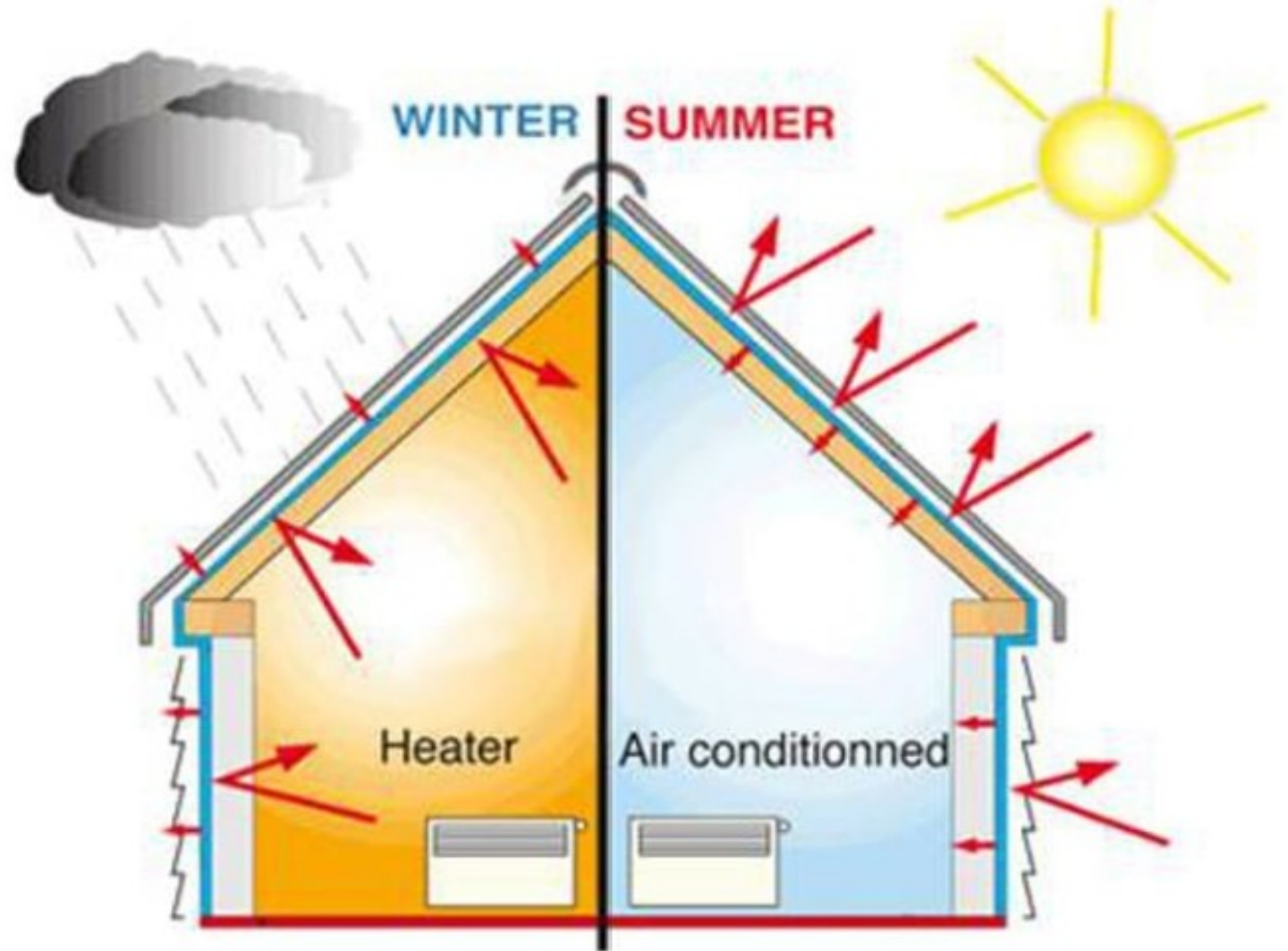
gaps where pipes
penetrate walls

ecohomeinsulation.com.au

*Draught
Proofing in
my home*



Insulation



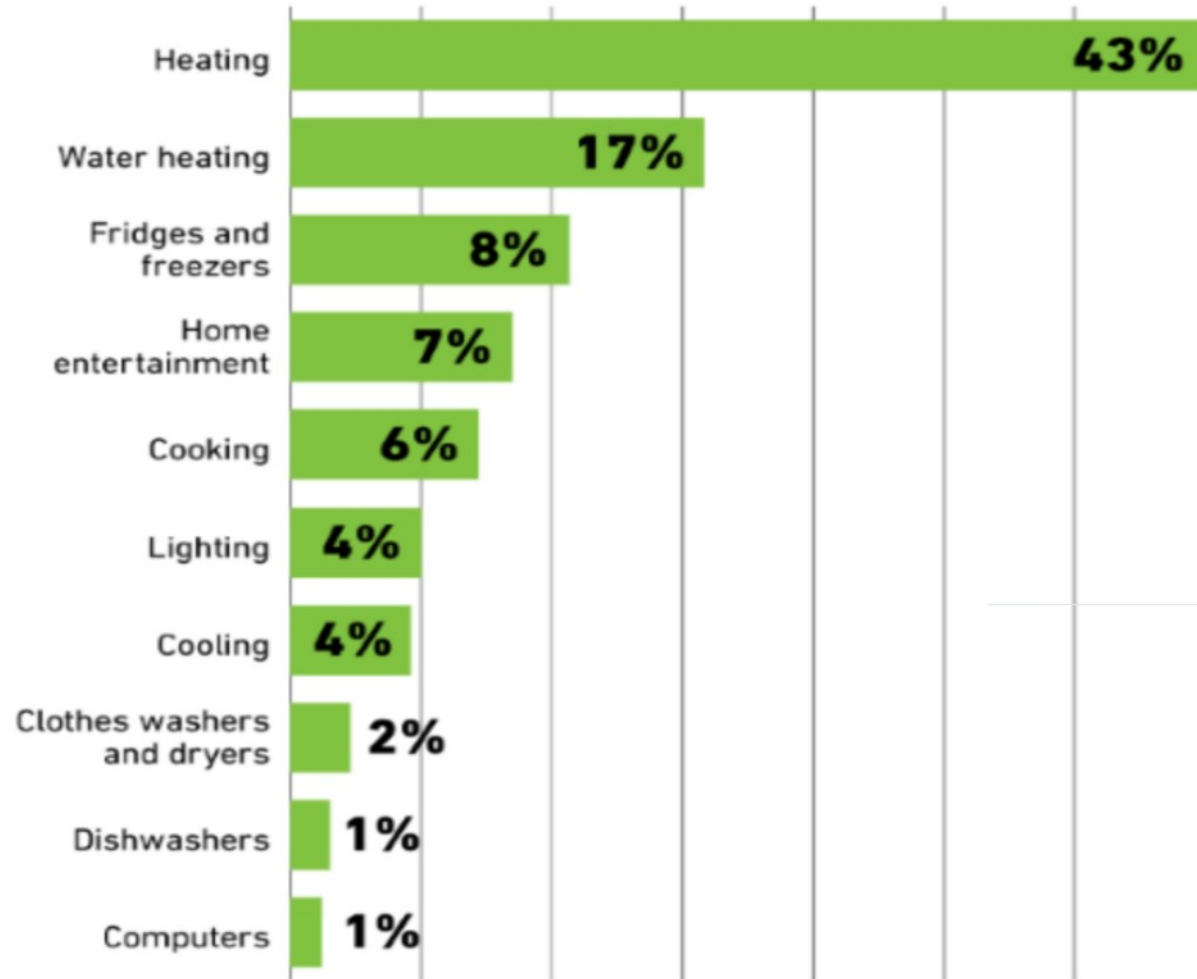
*Going
Solar*



Solar
SAVERS

[https://
solarsaversenergy.com/](https://solarsaversenergy.com/)

Running costs in an average Victorian home

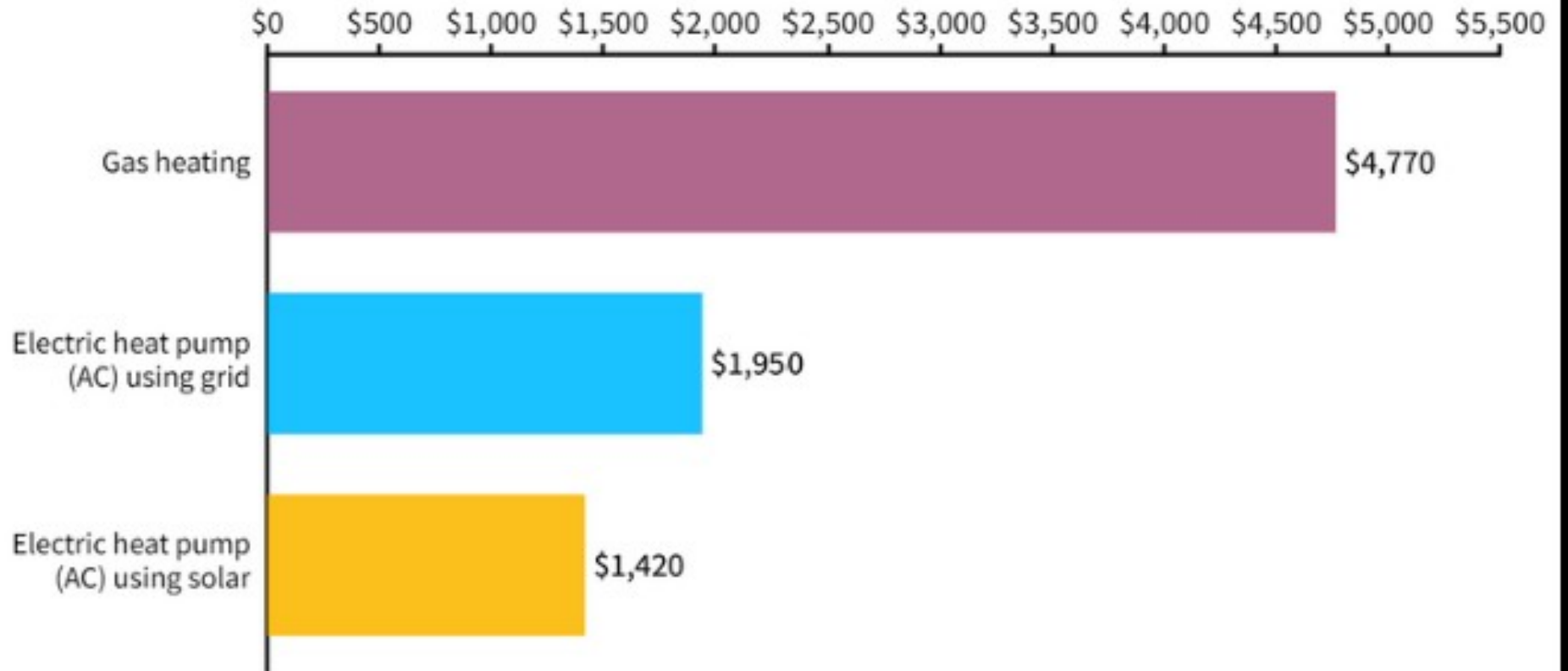


*Energy
Running
Costs*

The above statistics are based on the Residential Baseline Study, 2021.

Heating

Space heaters | Lifetime running costs

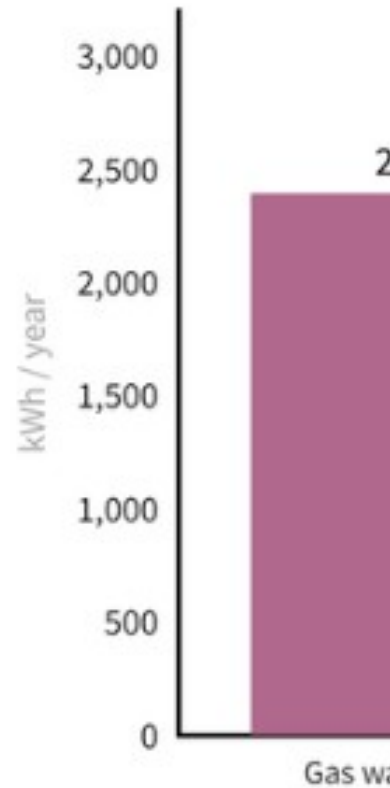


Based on average Australian heating energy use of 2828 kWh per year. Solar capacity factor of 17.14%, \$838 /kW. Gas price \$0.15 /kWh. Grid price \$0.27 /kWh. Heat pump COP 4.0. Gas COP 0.9. Solar use 30%. 10 year appliance lifetime.



Hot Water

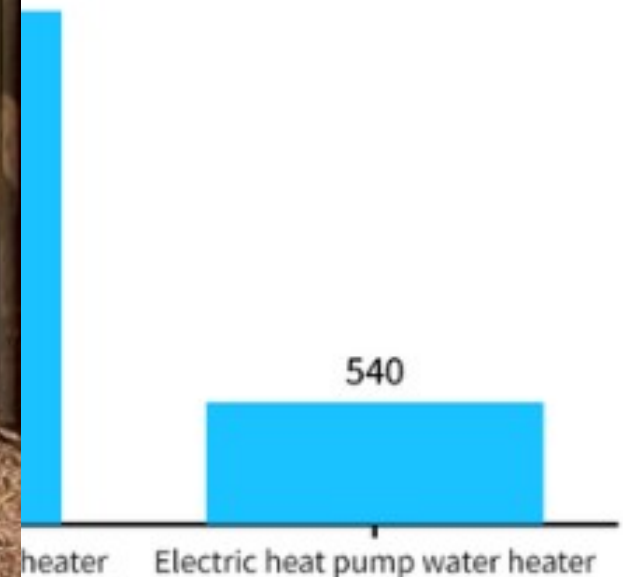
Water heaters | Average



Based on average Australian water heater capacity factor of 17.14%. Heat pump COP 4.0. Electric resistance COP 0.95. Gas COP 0.9.



Wh

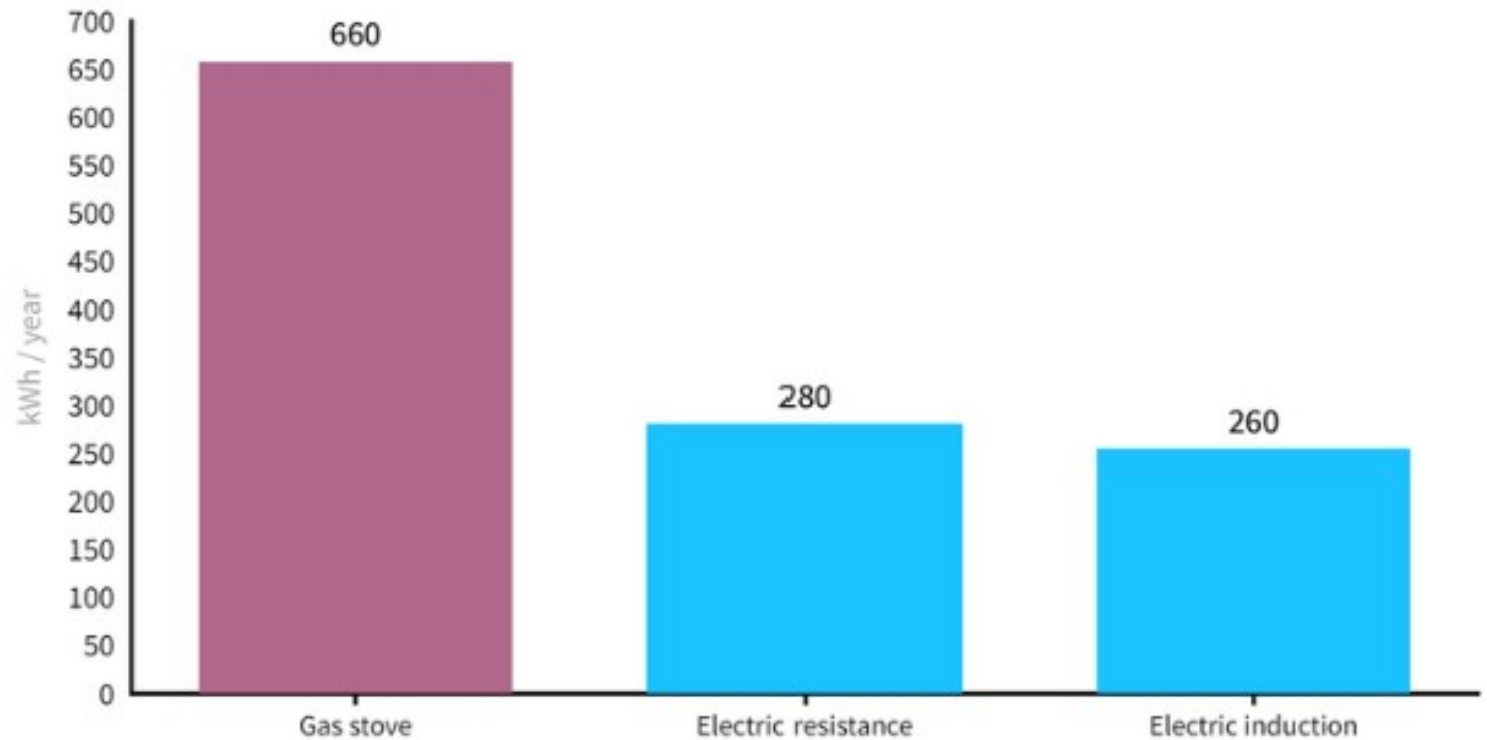


Based on average Australian water heater capacity factor of 17.14%. Heat pump COP 4.0. Electric resistance COP 0.95. Gas COP 0.9.



Induction Stove top

Stovetops | Average yearly energy use in kWh



Based on average Australian stovetop energy needs of 753 kWh per year. Gas stove COP 0.304. Induction stove COP 0.785. Resistance stove COP 0.711.

Electric Car

ehicles | Yearly energy use compa



Home battery



Council Actions

- thermal cameras & portable induction cooktops in libraries.
- practical sessions for renters on draughtproofing.
- large network of publicly available EV charging stations, powered by 100% renewable energy.
- directly support low-income, at-risk, and rental households with financial incentives to install efficiency measures.
- Safe Rooms Project aimed to retrofit one room in vulnerable homes.
- work with state & federal government to simplify electrification

Thank you