

Is Hydrogen the Solution for Net-Zero Living?



More than 18 tonnes of greenhouse gases are produced annually by each Australian household, in total accounting for at least one-fifth of total national emissions.¹

With the right appliances, a Hydrogen-powered home may one day eliminate household emissions while enabling Australians to enjoy the convenience and reliability of gas.

Climate impact of gas and electric appliances



The largest source of Australia's Carbon emissions is energy production:
 • **33.6%** of total national emissions.²

Gas is a polluting fossil fuel:
 • **2%** of total national emissions.³
 • Releases methane, a powerful greenhouse gas.




GREEN HYDROGEN
 THE MOST SUSTAINABLE FUEL

Is hydrogen an option?

- Hydrogen is the most **abundant** element in the universe.
- Burning Hydrogen produces only produces zero green house gas emissions if burnt from **hydrogen created from renewable resources** - not true from grey hydrogen.
- **'Green' Hydrogen** is created using renewable energy sources like solar and wind, thus generating no or very little polluting emissions.
- More than **100** Australian Green Hydrogen projects announced in 2022.

DID YOU KNOW?

Most gas networks in Australia are **already capable of transporting Hydrogen gas.**

Hydrogen blending is already happening in Australia and around the world.



The new cooking fuel?

- Existing gas appliances will work safely and reliably on blended renewable gas (up to 10% Hydrogen).
- Hydrogen-ready appliances running on 100% Hydrogen are currently being developed by leading manufacturers.
- Hydrogen can be used in cooking appliances like your oven, cooktop, and barbecue in the same ways that it is for heating and providing hot water.

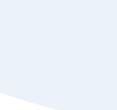
Benefits of hydrogen-powered appliances



Sustainable.
 When burned, Hydrogen emits no greenhouse gases and pollution.



Safe.
 While it requires respect and proper care, Hydrogen is non-toxic and disperses quickly. An odour can be added to ensure it has a noticeable smell.



Efficient.
 High heat production with relatively low fuel consumption.



Versatile.
 Hydrogen can be produced from variety of renewable sources.

Proof in concept: Introducing Electrolux's UltimateTaste 900 Hydrogen Gas cooktop

The concept UltimateTaste 900 Hydrogen Gas cooktop is a revolutionary cooking technology that offers sustainability without compromising the cooking experience. It delivers the reliability and heat of a gas cooktop without the environmental impact of traditional electricity or gas-powered appliances when connected to a renewable gas supply.

The cooktop is highly efficient, cooking food faster with swift, precise heat, and using less energy than traditional gas cooktops. It also features a sleek, modern design that can elevate the aesthetic of any kitchen.

While the cooktop is still in prototype and not yet available for purchase, it is testament to Electrolux Group's commitment to enabling better and more sustainable living in the future.

The UltimateTaste 900 Hydrogen Gas cooktop can be demo'd to serve as an exciting look into the low carbon future of gas.

Igniting the Future of Sustainability

Is Hydrogen the Solution for Net-Zero Living in Australian Homes?

> [DOWNLOAD THE WHITEPAPER](#)



1. EPA Victoria. "Households and GHG emissions." https://apps.epavic.gov.au/AGC/r_emissions.html.
 2. CSIRO. "What are the sources of Australia's greenhouse gases?" <https://www.csiro.au/en/research/environmental-impacts/climate-change/climate-change-qa/sources-of-ghg-gases>.
 3. Climate Council. "Getting Your Home Off Gas." <https://www.climatecouncil.org.au/resources/getting-your-home-off-gas-quick-guide>.