

New Energies Service Station

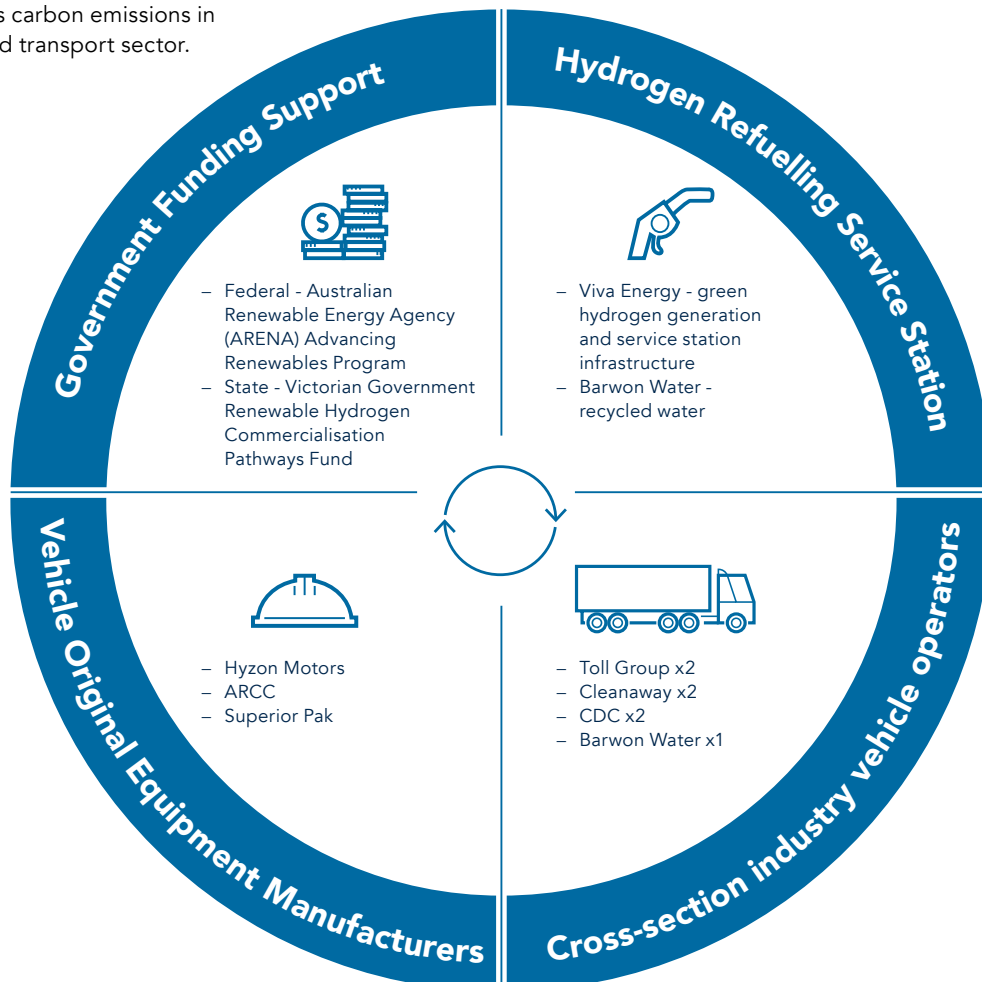


Artist's depiction of the New Energies Service Station, preliminary, conceptual and not to scale

The New Energies Service Station will be Australia's first publicly accessible service station that offers hydrogen refuelling and electric vehicle recharging for heavy fuel cell electric vehicles (FCEVs). To achieve this, Viva Energy has brought together a range of stakeholders including vehicle operators and government to develop a hydrogen mobility project involving the deployment of infrastructure (service station) and commercial vehicles to demonstrate the important role hydrogen can play in decarbonising heavy vehicle transport. For more information about the project please visit www.vivaenergy.com.au/energy-hub/new-energies-service-station-project

Working together to build a Hydrogen Transport Future

The project illustrates how Viva Energy has brought industry and government together to address carbon emissions in the commercial road transport sector.



Where will the New Energies Service Station be located?

The proposed New Energies Service Station is on the main arterial entry to the city of Geelong on the corner of Princess Highway and School Road, at the entrance to Geelong Refinery.



Located in Geelong's northern suburbs, the New Energies Service Station will be within an existing industrial zone, on vacant land owned by Viva Energy, with access to electrical infrastructure and recycled water.

What features will the New Energies Service Station have?

The New Energies Service Station will incorporate an electrolyser for the on-site generation of green hydrogen using renewable electricity and recycled water from Barwon Water's Northern Plant.

Subject to approvals operations are expected to commence in late 2023.

What is the Geelong Energy Hub?

Viva Energy has plans to diversify the use of its Geelong Refinery site into a modern Energy Hub. The Energy Hub could support the energy transformation underway while also providing energy security to the State.

The Energy Hub proposes a range of projects, including:

- a Gas Import Terminal,
- a solar energy farm,
- strategic fuels storage, and
- hydrogen generation and refuelling.

Project Cost

Total Project cost of \$43.3m, with the following contributions:

- ARENA \$22.8m
- Victorian Government \$1m
- Viva Energy \$11m
- Project Partners \$8.5m

FAST FACTS



- Timing - Operational by late 2023



- Generation -
 - Renewable Electricity
 - 2MW Polymer Exchange Membrane (PEM) Electrolyser
 - Production of up to 850kg hydrogen per day
 - Recycled water from Barwon Water's Northern Plant



- EV charging ~150kW/hr

- Refuelling:

- 2 dispensers
- ~15min on an average 30kg fill
- 10 vehicles back to back in ~1.5 hours
- Dispensing left-hand and right-hand refuelling
- Peak flow rate ~3.6kg/min



The project received a grant from the Australian Renewable Energy Agency (ARENA) as part of ARENA's Advancing Renewables Program and the Victorian Government also contributed to the project via the Renewable Hydrogen Commercialisation Pathways Fund.

The views expressed here are not necessarily the views of the Australian Government, and the Australian Government does not accept responsibility for any information or advice contained here



How to contact us?

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