



Australia's National
Science Agency

Hydrogen Technology Demonstration Facility

The CSIRO Hydrogen Technology Demonstration Facility in Clayton, Victoria, enables industry and researchers to demonstrate and test innovative hydrogen technologies.

The facility provides a safe and well-provisioned environment for researchers, industry partners and businesses to test, trial and demonstrate new and emerging technologies across the hydrogen value chain. With expertise in hydrogen engineering and safety, CSIRO offers end-to-end support to ensure your demonstration project achieves its potential.

Technology demonstration opportunities span across the hydrogen production value chain, including:

- production
- separation and processing
- storage
- utilisation.



The Hydrogen Technology Demonstration Facility includes:

- Seven fully equipped research bays
- Renewable energy supplied via power purchase agreement
- Hydrogen refuelling station with high pressure storage
- Cryogenic Research Facility
- Safety features such as hydrogen sensors and vents



The Hydrogen Technology Demonstration Facility includes seven fully equipped bays

Benefits of using the Hydrogen Technology Demonstration Facility

1. **Safety:** CSIRO has a team of experts available to help design your demonstration safely and facilitate the HAZOP process to ensure compliance with our stringent safety protocols.
2. **Onsite support:** A technical expert will be assigned as a point of contact to facilitate the demonstration project, source trades and accommodate visitors.
3. **Facilities:** Each work bay is equipped with single and three phase electricity, deionised water, piped gases, hydrogen sensors, alarms and hydrogen venting.
4. **Scale up:** With decades of experience in taking technology from bench to market, our experts will assist in elevating your technology's TRL (Technology Readiness Level) with tailored support.
5. **Network and exposure:** With other hydrogen technology projects active in the facility, as well as frequent visits from national and international visitors, you will have the opportunity to showcase your technology to a broad range of professionals and expand your network within the hydrogen industry.

The Hydrogen Technology Demonstration Facility features a Hydrogen Refuelling Station, including an electrolyser that uses renewable electricity sourced from the grid, and 80kg of hydrogen storage. The Hydrogen Refuelling Station was co-funded by the Victorian Hydrogen Hub led by Swinburne University of Technology.



SiQENS GmbH demonstrating their hydrogen separation technology



Hadean Energy used the Hydrogen Technology Demonstration Facility to test long term durability and performance of their Solid Oxide Electrolyser design.

‘The CSIRO staff provide great technical expertise, and also put me in contact with some other hydrogen players who could help us develop further. We even got some great publicity!’

Chris Rowland, Hadean Energy CEO

How to use the Hydrogen Technology Demonstration Facility

We welcome expressions of interest to access the facility for the purpose of testing, trialling or demonstrating hydrogen technology.

As Australia's national science agency, CSIRO is solving the greatest challenges through innovative science and technology. CSIRO. Creating a better future for everyone.

Contact us
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For further information, to book a tour or to get started:

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