

LATEST NEWS



Hydrogen sees Australia taking a big step towards sustainable energy solutions

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- Eight international standards adopted by Australia to help shape the future of hydrogen across the country.
- Global demand for hydrogen exported from Australia could be almost a million tonnes by 2030, adding \$11billion in GDP growth each year until 2050.
- Adoption of international standards can facilitate safe use, transport and trade of the energy source.



The conversation around sustainability and the potential of renewable energy has rapidly grown in 2020. Hydrogen in Australia is one sector gaining momentum. Standards Australia recognises its potential role across industry to help Australia decarbonise, improve fuel security, and create new investment and export opportunities.

A recent report calculated global demand for hydrogen exported from Australia could be almost a million tonnes by 2030, adding up to \$11billion in GDP growth each year until 2050 (1). To assist in the successful implementation of hydrogen across Australia, eight international standards have recently been

adopted.

“This is a big step for Australian energy. It’s important the opportunities hydrogen presents are supported by standards, which will help with the safe and effective scale up of this technology,” said Head of Standards Development at Standards Australia, Roland Terry-Lloyd.

Adoption of international standards for Australia has the potential to not only support the safety of users with guidance on the storage, transport and refuelling but could also facilitate international trade enabling Australia to participate in the global hydrogen economy.

Dr Alan Finkel AO, hydrogen adviser to the Australian Government and Australia Chief Scientist, expressed his support, “I welcome the publication of these hydrogen standards. Effective standards are central to the goal of developing a safe and globally competitive Australian hydrogen industry.”

Government interest and investment in hydrogen is growing. Working with international colleagues like International Standards Organisation (ISO) and on international committees gives Australia a voice when developing these standards, which can provide an important foundation and support the responsible and innovative use of this energy source.

Fiona Simon, CEO of the Australian Hydrogen Council says, “Hydrogen has the potential to transform global energy use and change the way we power transport, homes and industries and this must be underpinned by relevant and best practice standards.”

“Creating a stable and efficient regulatory environment across the hydrogen supply chain is a key element to ensure the industry thrives. The Australian Hydrogen Council has been pleased to provide a key role in Standards Australia’s process and welcomes today’s announcement,” continued Ms Simon.

Supporting the hydrogen implementation is an important step in Standards Australia’s commitment to the ongoing sustainability and safety of Australian communities.

The eight standards adopted and published include the below and more information on these standards is available on our website [here](#):

- AS 16110.1:2020, Hydrogen generators using fuel processing technologies, Part 1: Safety (ISO 16110-1:2007, MOD)

- AS ISO 16110.2:2020, Hydrogen generators using fuel processing technologies, Part 2: Test methods for performance
- AS ISO 14687:2020, Hydrogen fuel quality – Product specification
- AS 22734:2020, Hydrogen generators using water electrolysis – Industrial, commercial, and residential applications (ISO 22734:2019, MOD)
- SA TS 19883:2020, Safety of pressure swing adsorption systems for hydrogen separation and purification (ISO/TS 19883:2017, MOD)
- AS ISO 16111:2020, Transportable gas storage devices – Hydrogen absorbed in reversible metal hydride
- AS ISO 19881:2020, Gaseous hydrogen – Land vehicle fuel containers
- AS 19880.3:2020, Gaseous hydrogen – Fuelling stations, Part 3: Valves (ISO 19880-3:2018, MOD)

(1) <http://www.coagenergycouncil.gov.au/sites/prod.energycouncil/files/publications/documents/Erratum%20-%20COAG%20report%20Accessible%20version.pdf>



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