

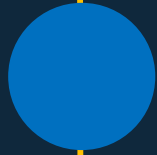
Standards for the Hydrogen Economy

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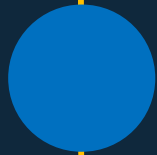
Standards Australia –
Formed 1922



Independent, not-for-profit, non-government



Represents Australia on the International Organisation for Standardization (ISO) and the International Electrotechnical Commission (IEC)



Driven by adding Net Benefit to Australia and agenda is decided by stakeholders



A trusted partner of government, industry and the community

Why do standards matter?

Trust and Recognition

Access to Global Markets

Consumer Confidence

Economies of Scale

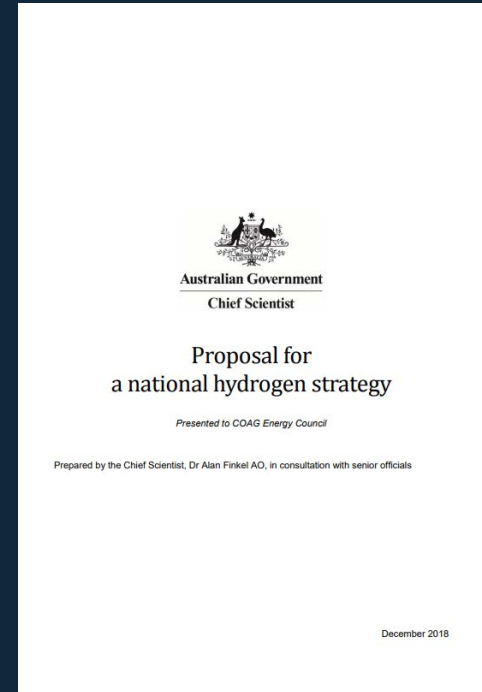
Level Playing Field

The logo for Standards Australia features a stylized yellow and white shape resembling a drop or a leaf, with several thin white circular lines overlapping it. The text "STANDARDS Australia" is positioned to the left of this graphic.

STANDARDS
Australia

Introduction to Hydrogen

What's all this hype about Hydrogen?



“ We believe that hydrogen has a key role to play in an economically, socially and environmentally sustainable and prosperous future ” - Commonwealth, state and territory energy and resources ministers

Hydrogen pilot initiatives

The Hydrogen Energy Supply Chain Pilot Project

Project will look to liquefy hydrogen made from brown coal and transported via ships to Japan.

Hydrogen Appliance Testing

Establish whether gas appliances such as domestic cookers, water heaters, space heaters etc. can tolerate 10% hydrogen blended with the natural gas supply.



South Australia's Hypark project

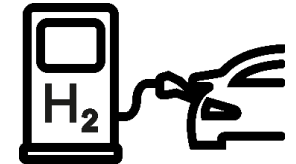
AGIG's project partners with Siemens, SA Power Networks and KPMG to produce hydrogen from renewable electricity, which will then be injected into the local gas distribution network at the Tonsley Innovation District south of Adelaide to provide low-carbon gas to homes and businesses.

Jemena Power to Gas Demonstration project

Hydrogen produced will be injected in the gas networks and will be used to power approximately 250 homes in Western Sydney. Providing enough energy to meet cooking, heating and hot water requirements

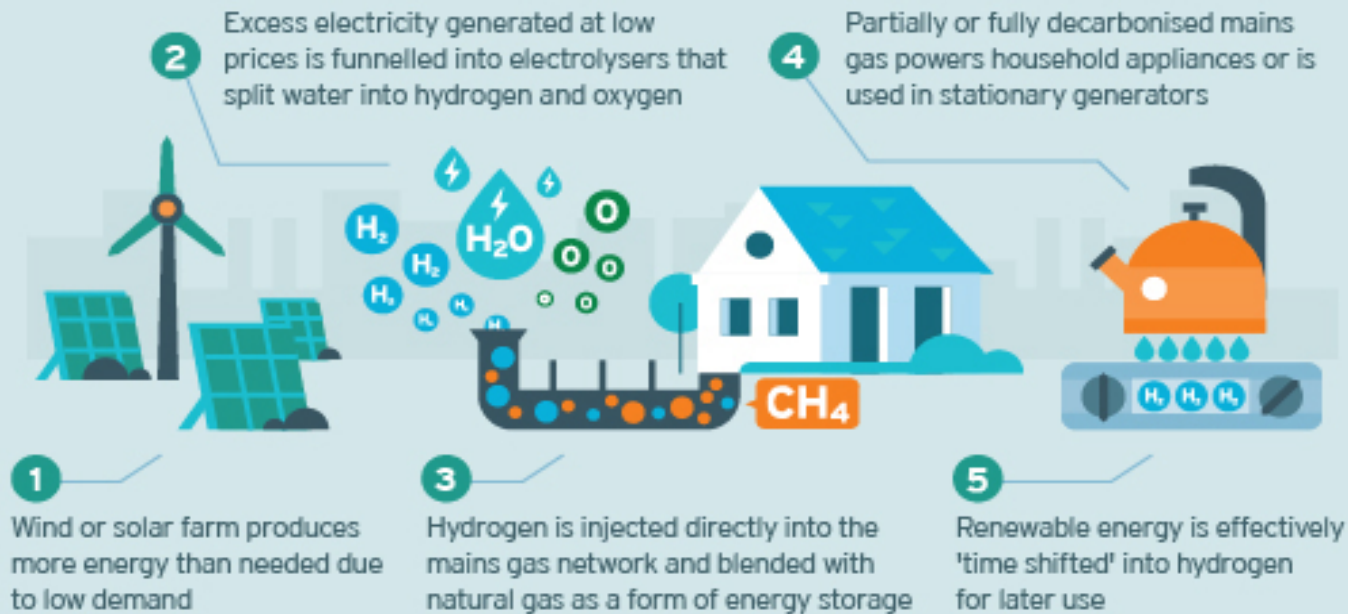
Establishment of refuelling stations

ACT government support the development of a hydrogen filling station. It is a joint venture between French renewable energy company Neoen, Korean car-maker Hyundai and energy supplier ActewAGL

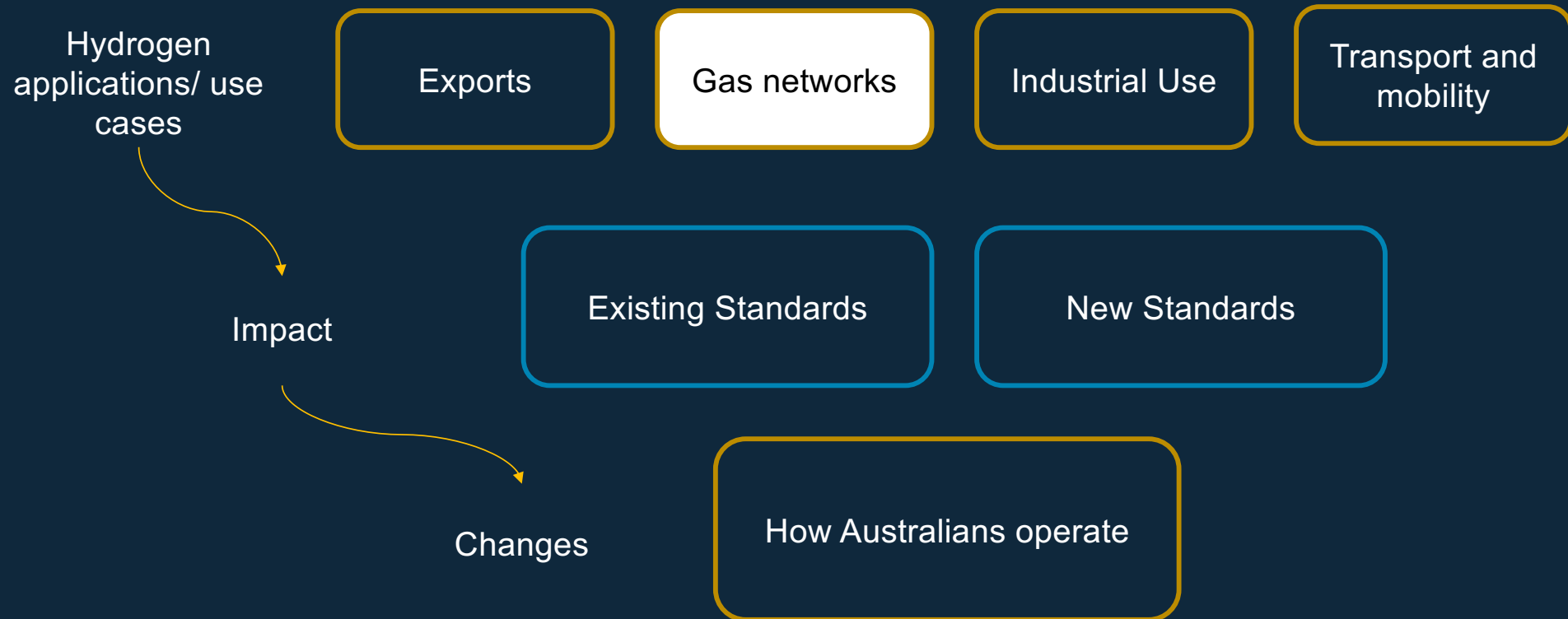


POWER TO GAS

Excess renewable energy, due to periods of low demand, creates challenges for network stability. Power to gas uses existing infrastructure to store that excess for later use



Standards underpin a number of sectors



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Standards Australia's role in the Hydrogen industry?

Standards Australia's Hydrogen Journey

National Hydrogen
Forum

Participate on
relevant
international
committees

Review and adopt
Hydrogen
standards

Develop Hydrogen
Standards
Roadmap

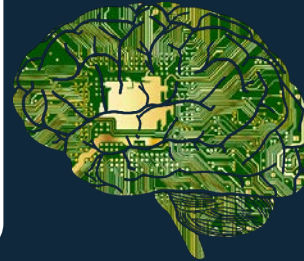


Some for emerging industries

Blockchain



Internet of Things



Smart Cities



Digital Twin



Artificial Intelligence



Cyber security

**Want to get
involved?**

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Keep in Touch



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Standards Australia



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