



Australia's hydrogen opportunity

David Norman, CEO, Future Fuels Cooperative Research Centre,
Australia - November 2021, to World Plumbing Conference

About Future Fuels Cooperative Research Centre

Long term, industry-led collaboration between 100 industry, government and academic organisations , co-funded by the National Government



Australian Government
Department of Industry, Science,
Energy and Resources

AusIndustry
Cooperative Research
Centres Program



Action orientated, industry led, applied research

Trusted voice of reason and evidenced based knowledge

\$90mAUD of cash and in-kind support (approx. \$65m USD)

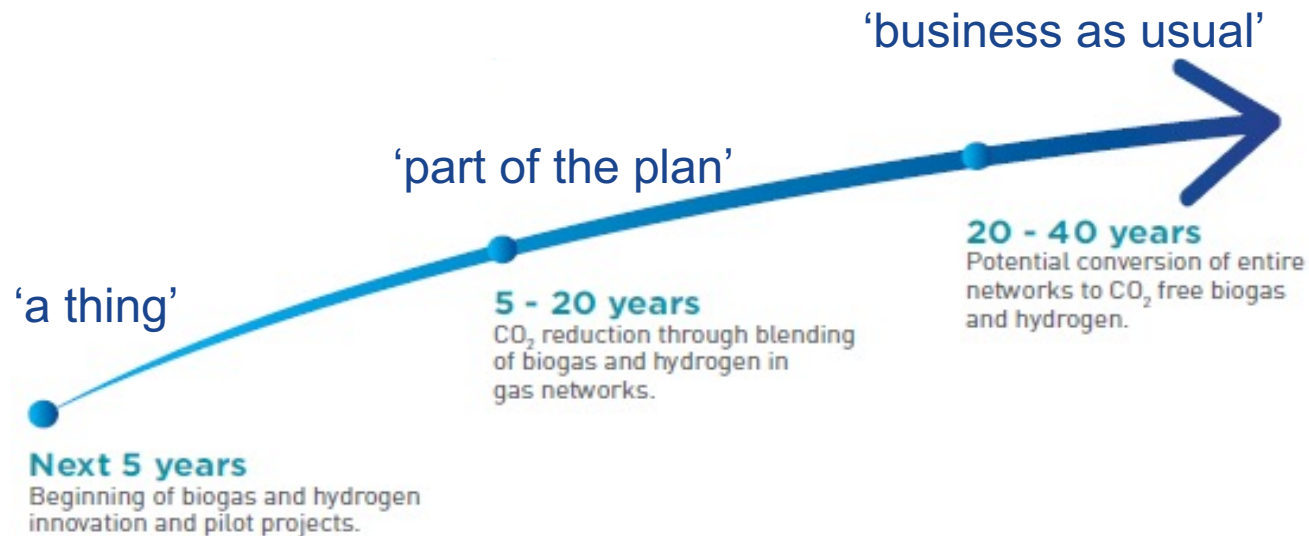
Three years in to a seven year research program

89 projects and over 50 PhD scholarships already covering
3 core programs:

- **Future Fuel Technologies, Systems and Markets**
- **Social Acceptance, Public Safety
and Security of Supply**
- **Network Lifecycle Management**

Australia has come a long way since 2018

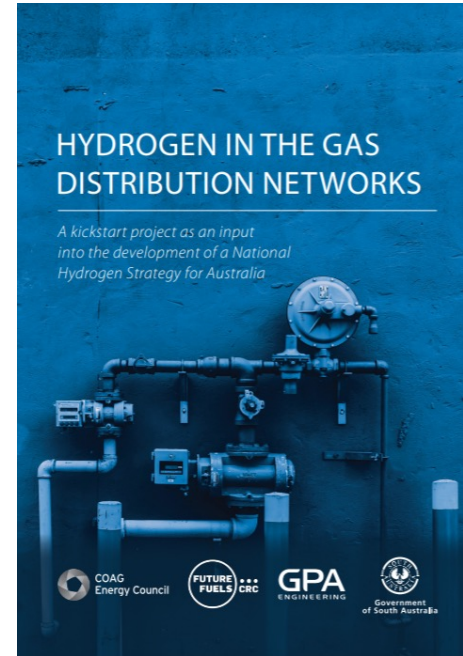
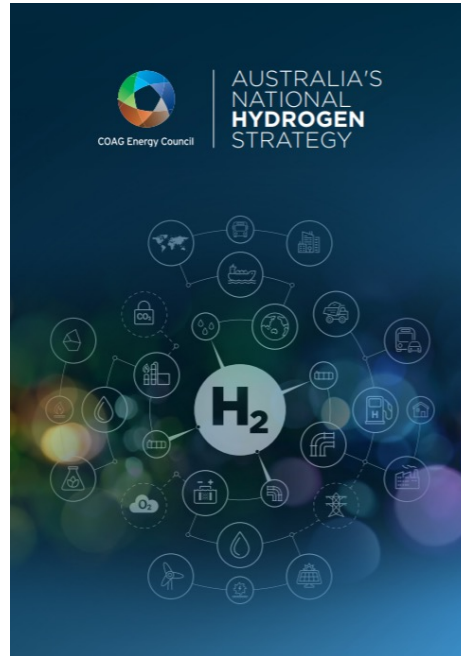
Hydrogen and Biomethane becomes:



<https://www.energynetworks.com.au/projects/gas-vision-2050/>



Australia's National Hydrogen Strategy



<https://www.industry.gov.au/data-and-publications/australias-national-hydrogen-strategy>

Australia has significant advantages

World-leading gas energy industry

Highly-skilled gas energy workforce

Natural resources and space

Existing trade relationships

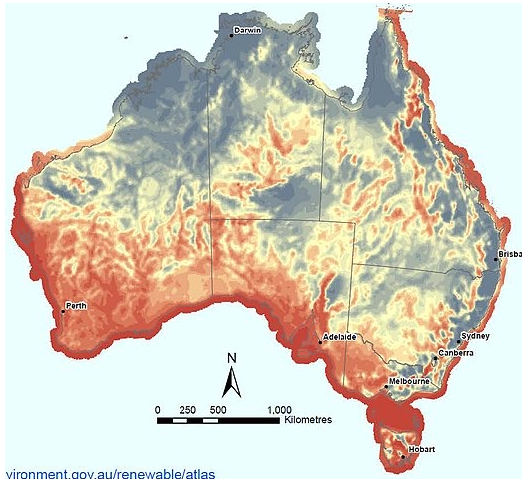
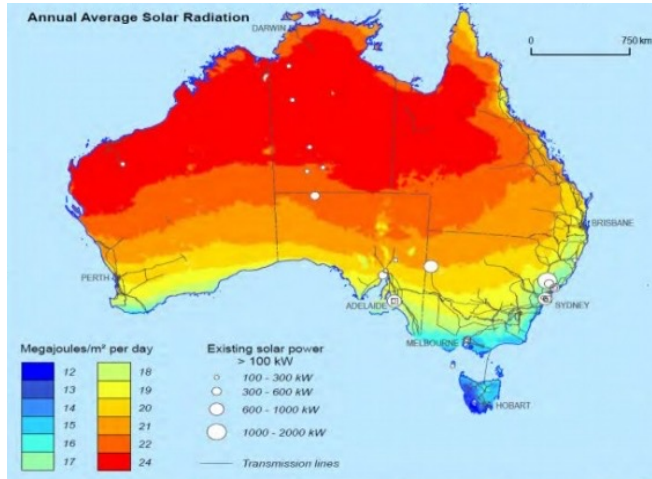
Geology needed for storage

Existing fuel infrastructure

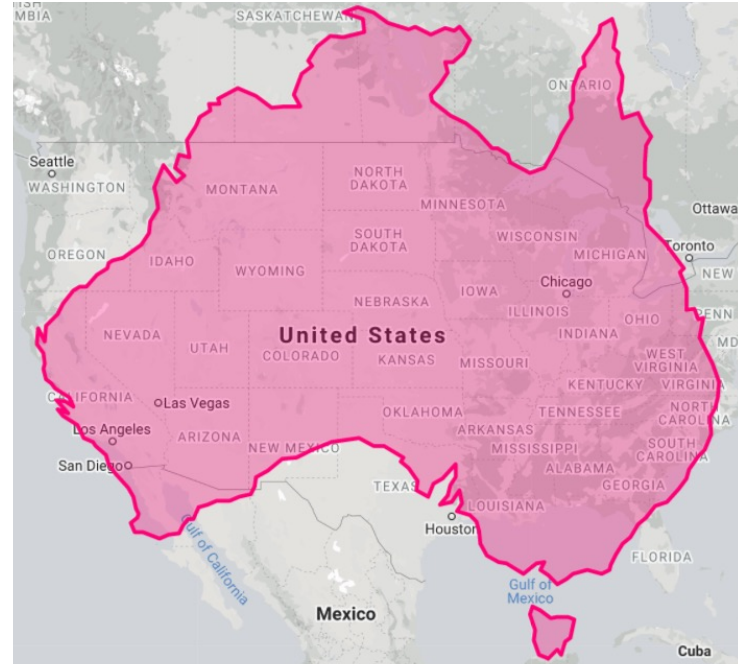
World-class research universities and engineering specialists



Australia has sun, wind, proximity to Asia...



...and space



80 industry projects in progress

West Sydney Green Gas Project



Hydrogen Park South Australia



ARENA and Export projects



Already funding 26
current projects
including gas blending
in major networks and
world-leading
electrolysers (3x10MW)



Target: 26GW of
renewable energy for
hydrogen production by
2028



Target: 15 million tonnes
of green hydrogen to the
world by 2030

HyResource is following hydrogen projects and R&D

In collaboration with CSIRO, NERA and the Australian Hydrogen Council we have launched HyResource

<https://research.csiro.au/hyresource>



15 technology clusters across Australia

NERA has formed a network of 15 hydrogen technology clusters across Australia, providing seed-funding in partnership with governments and industry to build the skills, capability and commercialisation opportunities in the emerging hydrogen industry.



—
HYDROGEN
TECHNOLOGY CLUSTER
AUSTRALIA
—

We are all at the epicentre of incredible change and opportunity

- The gas industry should be proud, courageous and bold about its future
- Every member of the global industry has the chance to benefit from and support the amazing new knowledge that is being created globally.

More information:

[ARENA](#) Australian Renewable Energy Agency

[Australian Hydrogen Council](#)

[CEFC](#) Clean Energy Finance Corporation

[CSIRO](#) Commonwealth Scientific and Industrial Research Organisation

[Future Energy Exports CRC](#)

[Future Fuels CRC](#)

[Gas Vision 2050](#) Energy Networks Australia, APGA & GAMAA)

[HyResource](#) hydrogen knowledge sharing

[National Hydrogen Strategy](#)

[NERA](#) National Energy Resources Australia



Enabling the decarbonisation of Australia's energy networks



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Future Fuels CRC is supported through the Australian Government's Cooperative Research Centres Program. We gratefully acknowledge the cash and in-kind support from all our research, government and industry participants.



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