

Shipping the Sunshine

The Australia-Germany Hydrogen Partnership



Australia and Germany

are natural partners
in green hydrogen

Energy demand ·
Manufacturing capability ·
Technology leader ·



· Land and resources
· Recognised leader in global export
of energy
· Reliable and trusted energy
partner

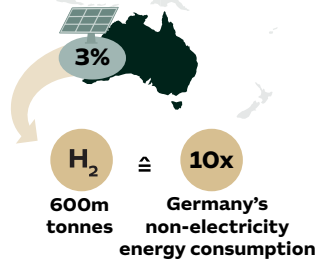
Australia and Germany both have expertise in renewable energy generation

More information:

www.germany.embassy.gov.au/beln/hydrogen.html

1

Australia has vast solar, wind and hydro resources to produce green hydrogen.



These are some of the best conditions globally for green hydrogen production.

Using the solar energy on just 3% of Australia's surface area would produce 600 million tons of hydrogen annually. That's ten times Germany's non-electricity energy consumption.

Graphic Source: HySupply project, GlobH2E, 2021 | Data source: Chu et al, 2020



\$



3

While the foundation for a new era in German-Australian cooperation is strong, there are important questions to resolve:

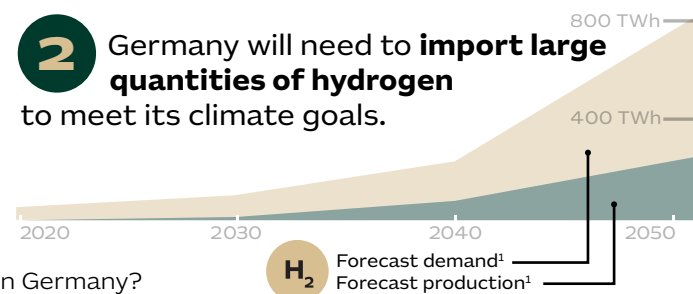
How to bring down costs?

How should hydrogen be transported?

What infrastructure will be needed in Australia and in Germany?

2

Germany will need to import large quantities of hydrogen to meet its climate goals.



4

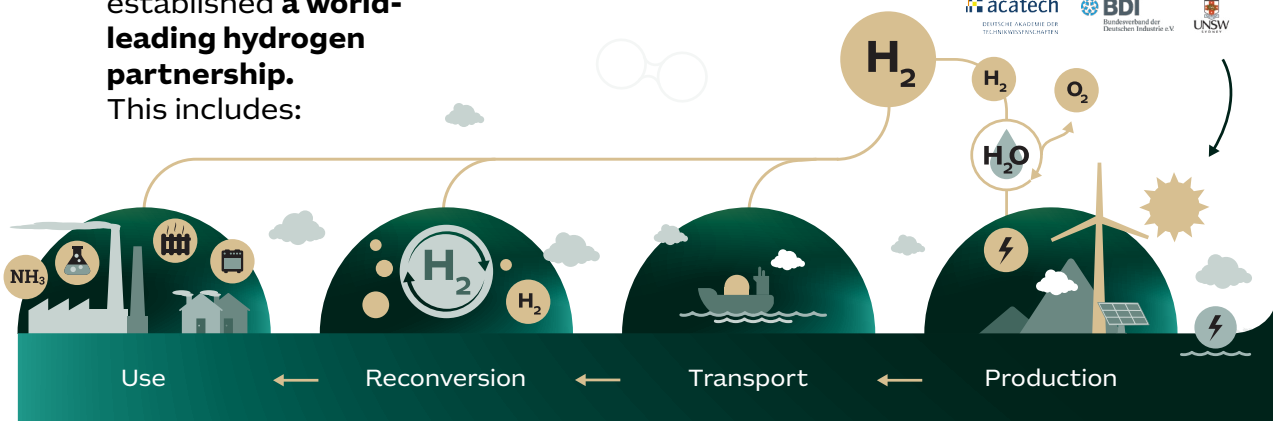
That's why Australia and Germany have established a world-leading hydrogen partnership. This includes:

A Hydrogen Accord to drive research, investment and trade.

+

The HySupply Feasibility Study into the green hydrogen supply chain.

acatech
DEUTSCHE AKADEMIE DER TECHNISCHEN WISSENSCHAFTEN
BDI
Bundesverband der Deutschen Industrie e.V.
UNSW
UNIVERSITY OF NEW SOUTH WALES



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What success looks like

H_2

H2<A\$2

Achieving affordable hydrogen at or under A\$2 per kilogram (€1.20/kg) - the point at which hydrogen is competitive with conventional energy carriers.



German business opportunities

Australia will be a major export market for German hydrogen technology, and a destination for long term investment.



Guarantee of origin

Australian and German leadership in the development of a hydrogen supply chain will help set global standards and certification norms.



Shipping routes

A secure and reliable supply of green hydrogen powering German industry.

