

Building a green hydrogen power plant



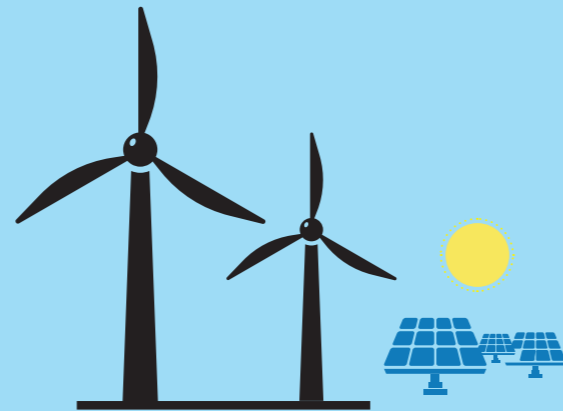
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Government of South Australia
Office of Hydrogen Power SA

We're committed to finding ways to reduce carbon emissions to slow down the pace of global warming.

South Australia is a leader in renewable energy by using wind and solar to make electricity



We can use this renewable energy to make green hydrogen as a new way to store and supply clean energy to our homes, communities, towns and industries.

Green hydrogen is made by splitting water into hydrogen and oxygen using an electrolyser powered by renewable energy.



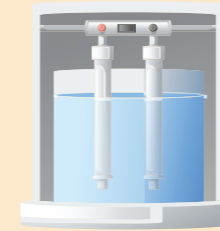
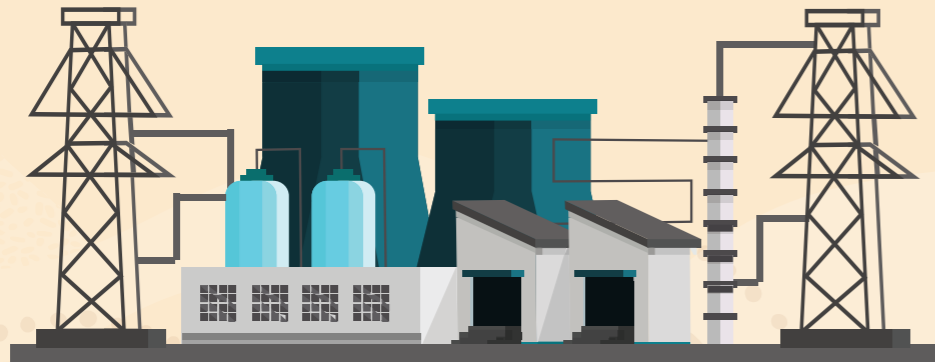
The South Australian Government is investing more than

\$500_M

to build a Green Hydrogen Power Plant in the Whyalla area.

What you can expect

The new hydrogen power plant will look like a modern industrial facility.



250 mwe
of electrolysers

To separate water into hydrogen and oxygen, 200 megawatts of power generation and storage.



To make green hydrogen, we will need water. A team of experts is looking into where the water can be sustainably sourced.



We will keep the Barngarla People and the broader community informed as this progresses.

Our commitment to community

The Office of Hydrogen Power SA is responsible for overseeing the design and delivery of the plant by

December 2025.

We will work with the Barngarla People, the Whyalla community and businesses as the project progresses. The community is an integral part of the developing renewable energy and green hydrogen industry.

Why green hydrogen?

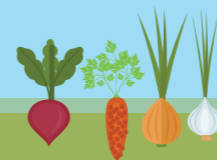
Green hydrogen is a sustainable and flexible energy source.

Supporting the production of hydrogen can be used to:

Power heavy transport



Make ammonia – for
fertiliser to grow food

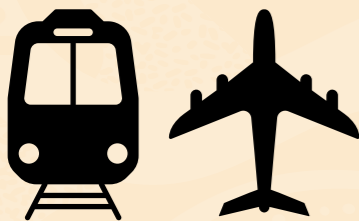


Power manufacturing plants
like steelworks cleanly



Why Whyalla?

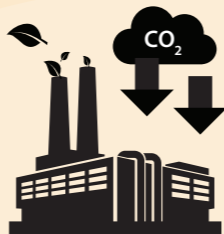
Whyalla has good access to roads, with an airport and railway nearby, and is close to an industrial export port.



Its location on the Upper Spencer Gulf has been selected because the abundance of sun and wind making it highly desirable for renewable energy projects.



It has industries like steel manufacturing that would benefit switching from polluting energy sources to renewable energy to make green steel.



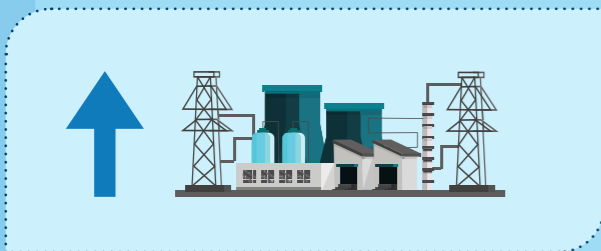
We worked with the Barngarla Determination Aboriginal Corporation and the Whyalla City Council to help us identify possible sites where the hydrogen plant could be built.

The Whyalla community has a willing workforce who will benefit from being part of this new green hydrogen industry.

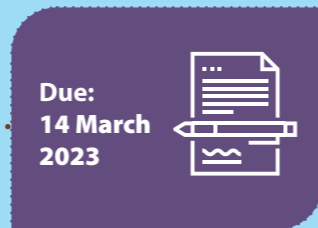


Where are we now?

Our Hydrogen Power Plant will be the first large scale plant to operate in the world.



The tender process for the build of the plant.



The proposals are being assessed to find the most suitable company with the best project to fit with our needs.



There is a lot we still need to understand as the project advances.

There are many ways to build the plant.

As we learn more, we will share regular updates. You can visit ohpsa.sa.gov.au to stay up to date.

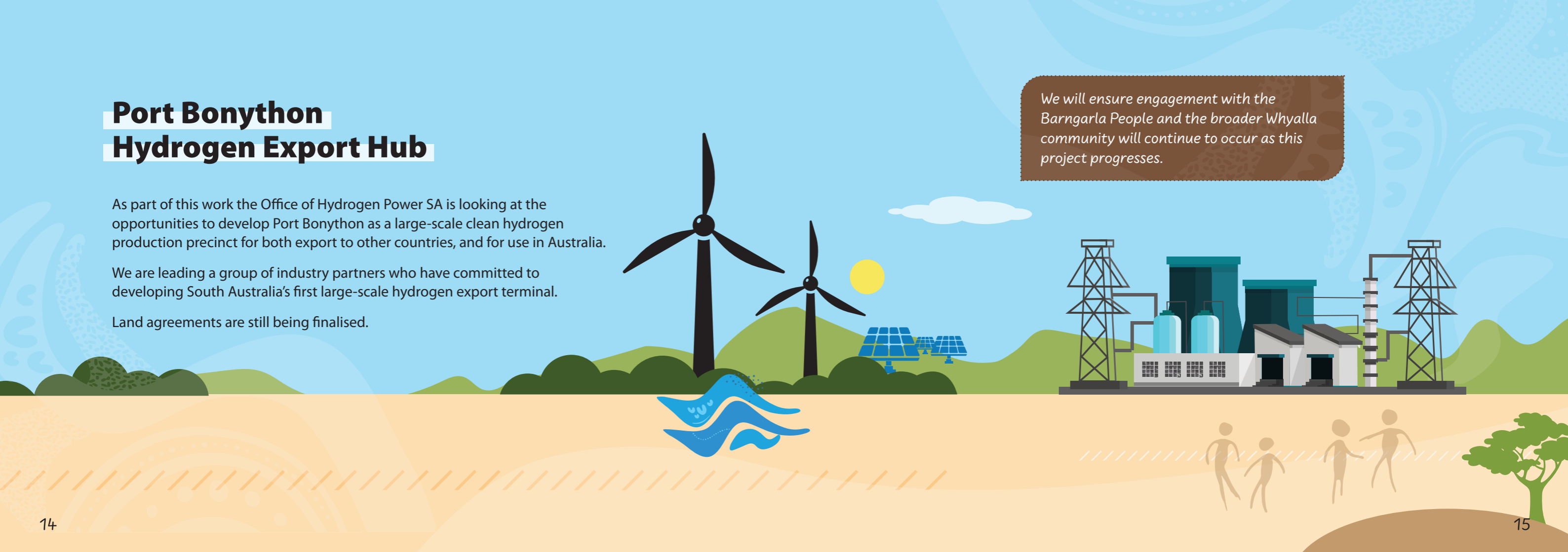
Port Bonython Hydrogen Export Hub

As part of this work the Office of Hydrogen Power SA is looking at the opportunities to develop Port Bonython as a large-scale clean hydrogen production precinct for both export to other countries, and for use in Australia.

We are leading a group of industry partners who have committed to developing South Australia's first large-scale hydrogen export terminal.

Land agreements are still being finalised.

We will ensure engagement with the Barngarla People and the broader Whyalla community will continue to occur as this project progresses.



Acknowledgement of Country

As guests here on Kurna land, we acknowledge everything this agency does impacts on Aboriginal country, the sea, the sky, it's people and their spiritual and cultural connection which have existed since the first sunrise.

We also acknowledge the Barngarla people as the Traditional Owners of land in and around the Whyalla area.

Our responsibility is to share our collective knowledge, recognise a difficult history, respect the relationships made over time, and create a stronger future.

We are ready to walk, learn and work together.

***The South Australian Government wants to work with Aboriginal People –
Your participation is key.***

Contact

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