



11 November 2024

ASX Announcement

Gold Hydrogen Further Expands South Australian Acreage Footprint

The Board of Directors of Gold Hydrogen Limited (**Gold Hydrogen**, ASX: **GHY**, **the Company**) are pleased to advise that the Company has been awarded a further petroleum licence application (PELA 792) of approximately 1,900km², split into three (3) areas as outlined below in **Figure 1**. As a result, the Company's overall gas-related surface footprint is now 77,292km².

Gold Hydrogen Managing Director Neil McDonald commented:

"As the primary 'first mover' in the state of South Australia for Natural Hydrogen and Helium exploration, we are pleased to have secured this additional acreage to complement our existing prospective portfolio."

As shown below in **Figure 2**, the eastern-most portion of PELA 792 is contiguous with PELA 688 held by Gold Hydrogen's 100% owned subsidiary Byrock Resources Pty Ltd. The western portions of PELA 792 are located on the Eyre Peninsula and are close to the State Government's proposed hydrogen power plant facility at Whyalla, and their hydrogen hub proposed for Port Bonython, both of which are initiatives of the Office of Hydrogen Power SA, established by the Department for Energy and Mining in 2022.

About the Whyalla Hydrogen Power Plant Facility¹

The South Australian Government has committed more than half a billion dollars to its Hydrogen Jobs Plan to build a world leading hydrogen power plant, electrolyser and storage facility near Whyalla by early 2026.

The facility includes a 200MW renewable hydrogen power plant which will be a new source of flexible power, providing additional grid stability for homes and businesses around the state by using excess renewable energy generated from large-scale wind and solar farms to provide a consistent output of supply.

About the Port Bonython Hydrogen Hub²

The South Australian Government and the private sector are collaborating to deliver the Port Bonython Hydrogen Hub as a multi-user precinct leveraging the state's renewable energy opportunities and enabling export from a clean hydrogen industrial hub. The Port Bonython Hydrogen Hub is proposed to be South Australia's first large-scale clean hydrogen production precinct for both export and domestic markets and is an integral part of South Australia's first-mover strategy to enter the global hydrogen market.

¹ <https://www.hydrogenpowersa.sa.gov.au/projects/hydrogen-jobs-plan/whyalla-hydrogen-power-facility>

² <https://www.hydrogenpowersa.sa.gov.au/projects/port-bonython-hydrogen-hub>

Located in the Upper Spencer Gulf, Port Bonython has:

- an existing deep-water liquid hydrocarbon export terminal
- over 2000 hectares of developable land.

This export facility will enable South Australia to ship hydrogen products made using renewable energy offshore while creating regional jobs.

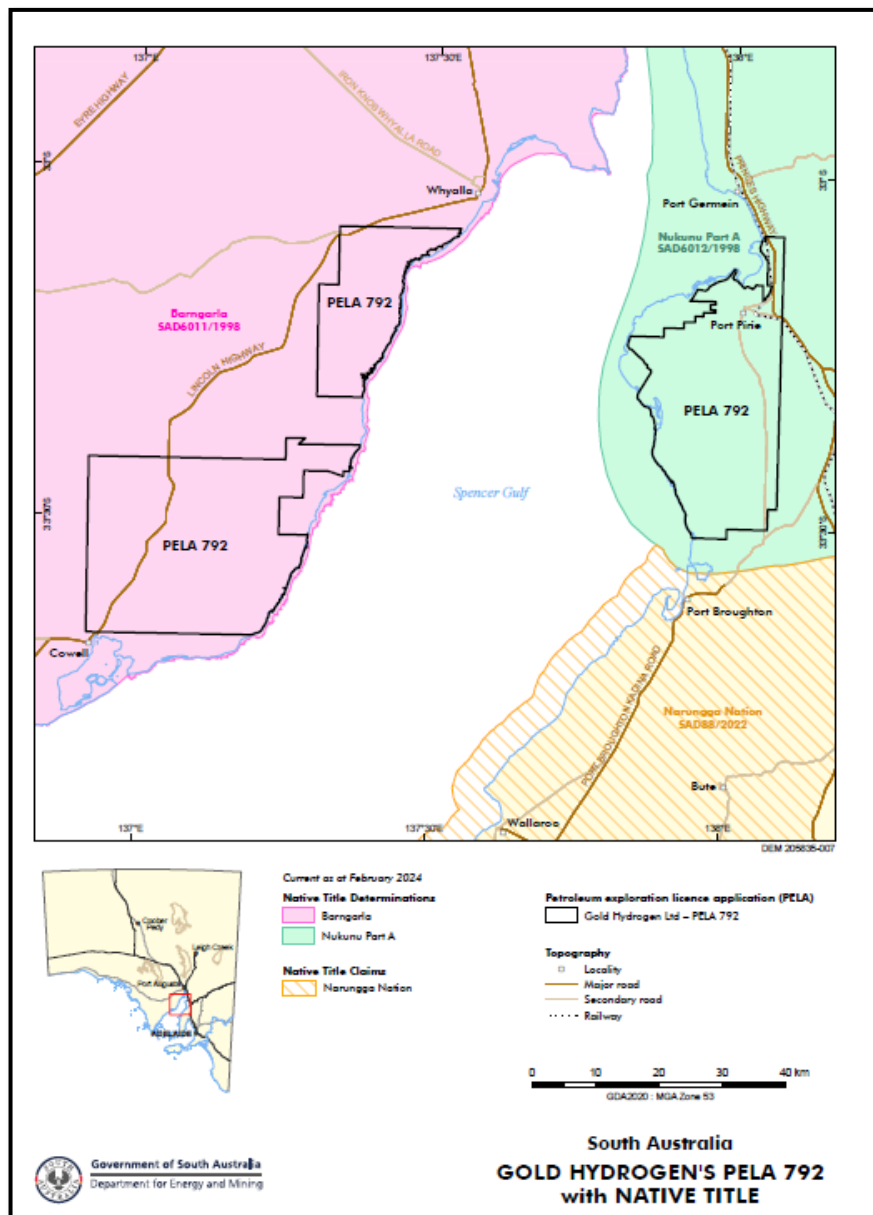


Figure 1 – PELA 792 areas straddling the Spencer Gulf in South Australia



Figure 2 – Updated combined gas-related tenure and application area of the Gold Hydrogen group.



The Company will now seek to progress the relative Native Title arrangements required for the application to proceed to granted tenure status.

About Gold Hydrogen

Gold Hydrogen is focused on the discovery and development of world class Natural Hydrogen and Helium gases in a potentially extensive province in South Australia. This region has recently had its Natural Hydrogen and Helium potential confirmed by the Company via its maiden drilling campaign. The domestic and global demand for Hydrogen and Helium, combined with new exploration techniques and experienced personnel, provides Gold Hydrogen with an extraordinary opportunity to define and ultimately develop a new Natural Hydrogen and Helium gas province.

The combined permit area of the Gold Hydrogen group is now approximately 77,292km². Gold Hydrogen holds one granted exploration license (the Ramsay Project - PEL 687) and one application area, whilst its two 100% owned subsidiary companies (White Hydrogen Australia and Byrock Resources) hold an additional seven (7) applications for Natural Hydrogen and Helium exploration within South Australia. Gold Hydrogen is also the preferred applicant for four (4) gas storage exploration licenses applications (GSELA) covering an area of 8,107km² within the Yorke Peninsula portion of PEL 687 in South Australia. These storage licence applications are in addition to the granted exploration licence and application licences.

The group's permit areas are characterised by low population densities, cooperative stakeholders and aspects of the natural environment suited to the exploration and development of a future Natural Hydrogen and Helium gas province. Gold Hydrogen places considerable importance on close liaison with landholders, traditional owners and all other stakeholders, and this approach has led to the grant of its key tenement PEL 687 in South Australia. The Company intends to continue to invest in these efforts.

Further Information

Further information on the Gold Hydrogen group, its projects, and its Board and Management can be found on the Company's website (www.goldhydrogen.com.au). Gold Hydrogen also has accounts on LinkedIn and Twitter ([@GHY ASX](https://twitter.com/GHY_ASX)), and copies of market releases will be emailed to all interested parties who register via info@goldhydrogen.com.au

This announcement has been authorised for release by the Managing Director.

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