

## SA-H2H™ led working group formed to assess feasibility of multiple hydrogen refuelling stations in South Australia

**26<sup>th</sup> February 2024**

A South Australian Hydrogen Hubs Inc. (**SA-H2H™**) led working group, consisting of the four SA-H2H™ members of AGIG, ATCO, BOC and Hiringa, is investigating the feasibility for establishing multiple Hydrogen Refuelling Stations (**HRS**) within South Australia, with potential for interconnection with HRS locations in other states.

The group is considering a novel approach of deploying HRS infrastructure that is relocatable from one site to another. The Relocatable HRS (**RHRS**) units being considered are intended to be of sufficient size to accommodate vehicle fleet use of refuelling up to 10 hydrogen fuelled trucks per day (at 350 bar) or up to 60 hydrogen fuelled cars per day (at 700 bar), or a combination of both. To reduce upfront capital costs, the RHRS are intended to be supplied with hydrogen via tube trailer from third-party suppliers. The RHRS design will include onsite hydrogen storage capacity but will not have in-built hydrogen production capability.

The group is currently undertaking early-stage feasibility studies, including site selection screening, preliminary design engineering and hydrogen vehicle market assessment. The feasibility studies are expected to take until early 2024 to conclude, following which the group will decide whether to progress to the next phase of formal approvals and detailed engineering. Should the group ultimately decide to progress with one or more RHRS sites, the first are targeting to be operational in 2025 and are intended to be available for use by third parties that have an interest in using hydrogen vehicles as part of their vehicle emissions reduction strategy.

As the RHRS are intended for third party use, the group is open to discussing with anyone that might be interested in using hydrogen vehicles of any sort and / or hosting a RHRS at their site.

All follow-up inquiries in the first instance should be directed towards SA-H2H™.

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**About: South Australian Hydrogen Hubs Inc.**

South Australian Hydrogen Hubs Incorporated (**SA-H2H™**) SA-H2H™ is an industry led membership-based organisation founded in 2021, now with over 60 financial members and supporters, including 22 original founding industry members and the South Australian Government Departments for Energy and Mining (**DEM**) and Trade and Investment (**DTI**).

SA-H2H™ is the home of hydrogen collaboration in South Australia. SA-H2H™ fosters collaboration by actively engaging with all tiers of government and across industry to build collaborative project based outcomes that build the hydrogen ecosystem in South Australia.

The SA-H2H™ mission is to deliver hydrogen supply-chain scale in South Australia through enabling hydrogen hubs, accelerating the hydrogen ecosystem, fostering hydrogen innovation, building hydrogen skills, capability and attracting hydrogen investment.

The strategic goals of SA-H2H™ include to establish hydrogen hubs by 2025, through:

- Industry led collaboration & investment,
- Multi-hub & project aggregation strategies, and
- Accelerating local market supply-demand.

Website: [www.sah2h.org](http://www.sah2h.org)

**About: Australian Gas Infrastructure Group**

Australian Gas Infrastructure Group (**AGIG**) own and operate infrastructure that delivers gas to more than two million Australian homes and businesses. We also deliver gas that supports the Australian economy – for power generators, mines, and manufacturers.

The combined distribution, transmission and storage assets make AGIG one of the largest gas infrastructure businesses in Australia. We also own and operate Australia’s largest renewable hydrogen production facility – Hydrogen Park South Australia – with multiple other projects at earlier stages of development.

At AGIG, we are committed to sustainable gas delivery today, and tomorrow. Our Low Carbon Vision targets 10% renewable gas (such as hydrogen and biomethane) in our distribution networks by no later than 2030, and 100% renewable gas by 2040 as a stretch target, and by no later than 2050.

For our midstream and transmission assets we will continue to deliver for our customers. This means providing the infrastructure solutions required for their businesses, including by working with them to transition to natural gas and through renewable gas solutions, such as blended and pure renewable gas products.

To achieve this, we are partnering with governments and industry to deliver renewable hydrogen projects across the country and across the value chain.

Website: [www.agig.com.au](http://www.agig.com.au)

**About: ATCO**

ATCO is a global integrated energy, housing, transportation, and infrastructure company. Established in 1947 in Canada, ATCO has grown to become a global enterprise with thousands of employees around the globe.

ATCO has been part of the South Australian landscape for more than 60 years with the first of the ATCO Structures factories to build pre-fabricated module buildings established in Elizabeth in 1961. In the 1990s, the Australian subsidiary of CU Power International (now ATCO Power) commenced construction and then commissioned a 180MW cogeneration plant in Osborne, South Australia. With experience in building, owning and operating pipeline infrastructure globally, ATCO acquired the Western Australian natural gas distribution network in 2011. At its Jandakot facilities, ATCO has developed a Clean Energy Innovation Hub, an operational model of solar, battery and renewable hydrogen production through electrolysis. Through this, hydrogen is being blended into the gas distribution network; electricity is being generated from stored hydrogen through an onsite fuel cell; and hydrogen fuel cell vehicles that are part of ATCO's fleet are being refuelled. ATCO has been investing in renewable energy solutions for 30 years and continues to respond to the energy transition through investments in a range of projects that utilise new technologies and business models to provide energy solutions for a low carbon future - including investing in renewable generation, microgrids, storage and hydrogen.

Website: [www.atco.com/en-au](http://www.atco.com/en-au)

**About: BOC**

BOC supplies compressed and bulk gases, chemicals and equipment across the South Pacific Region. The company develops safe, sustainable and innovative solutions for customers in many specialty sectors, heavy industry and medical environments.

Our gases, technologies and applications impact the lives of people every day across the South Pacific, and help customers reduce their carbon footprint and enable the transition to clean energy.

We have been producing hydrogen in Australia and New Zealand for more than 80 years and can support heavy transport, bus, train and car fuelling, along with industries such as steel refining, glass making and cement production.

BOC is a Linde company. Linde is a leading global industrial gases and engineering company with 2022 sales of \$33 billion. We live our mission of making our world more productive every day by providing high-quality solutions, technologies and services which are making our customers more successful and helping to sustain, decarbonise and protect our planet.

Website: [www.boc-limited.com.au](http://www.boc-limited.com.au)

## About: **Hiringa Energy**

Hiringa Energy (**Hiringa**) is a privately owned hydrogen company founded in New Zealand, with a strategic focus on developing, owning and operating hydrogen and ammonia production, storage and refuelling infrastructure facilities for hard-to-abate sectors including chemical feedstocks and heavy transport. Hiringa is active in Australia with a Sydney-based team, pursuing this strategy including via the Good Earth Green Hydrogen and Ammonia (“GEGHA”) project in joint venture with Sundown Pastoral Company, with assistance from the NSW Government’s Hydrogen Hubs Initiative (see [www.gegha.com.au](http://www.gegha.com.au)).

Since 2016, Hiringa has been developing low-carbon hydrogen production projects to supply industry, agriculture and transport, including utility-scale wind and solar to hydrogen and ammonia production. In mobility, Hiringa is currently commissioning four high-capacity hydrogen refuelling stations as the first phase of its low-carbon hydrogen refuelling network in New Zealand. A similar network is in the planning stages for Australia.

Website: [www.hiringaenergy.com](http://www.hiringaenergy.com)