

5 September 2023

ASX Announcement

Appointment of Chief Exploration Advisor

Highlights:

- **Frank Glass appointed Chief Exploration Advisor.**
- **Planning continues for the execution of the Company's maiden drill program for the Ramsay Project, expected to commence in October 2023.**

The Directors of Gold Hydrogen Limited (**Gold Hydrogen, ASX: GHY, the Company**) are pleased to advise of the appointment of Frank Glass as the Company's Chief Exploration Advisor. Mr Glass is an accomplished geologist and geoscientist who has been working in the petroleum and energy resources sector for well over 30 years, including a decade spent with Shell.

Mr Glass has been part of the growing industry exploring for natural hydrogen since 2001, and has most recently served as the Exploration Manager at 2H Resources, leading a dynamic team in the pursuit of natural hydrogen opportunities within South Australia.

Mr Glass has been involved with the establishment of a robust natural hydrogen exploration framework, including identifying high-potential regions for natural hydrogen prospects. This experience is expected to be of considerable benefit to Gold Hydrogen. Mr Glass has also been a driving force behind the inception of the Natural Hydrogen Association of Australia (NH2A), a national organization dedicated to supporting and advocating for the natural hydrogen exploration and development sector in Australia.

Mr Glass holds a Masters Degree in Structural Geology from the University of Amsterdam, and holds numerous professional memberships including the Petroleum Exploration Society of Australia and the European Association of Geoscientists and Engineers, amongst others.

Gold Hydrogen Managing Director, Neil McDonald, said:

"We are excited to have someone with Frank's geological experience and expertise in Natural Hydrogen working with us to help make our upcoming drilling program a success for the Company. Frank will also be heavily involved in the identification and planning for our future exploration leads and activities moving forward. On behalf of Gold Hydrogen, I am delighted to welcome Frank to the team."

About Gold Hydrogen

Gold Hydrogen is focused on the discovery and development of world class natural hydrogen gas in a potentially extensive natural hydrogen province in South Australia. This region has only recently had its natural hydrogen potential identified by the Company.

The domestic and global demand for hydrogen, combined with new natural hydrogen exploration techniques and experienced personnel, provides Gold Hydrogen with an extraordinary opportunity to define and ultimately develop a new natural hydrogen gas province.

The combined natural hydrogen permit area of the Gold Hydrogen group is approximately 75,332km². Gold Hydrogen holds one granted petroleum exploration license (the Ramsay Project - PEL 687) and its two 100% owned subsidiary companies (White Hydrogen Australia and Byrock Resources) hold an additional seven (7) applications for natural hydrogen 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 Company is currently progressing the planning and permitting for its maiden drilling campaign at its flagship Ramsay Project (refer PEL 687 on the **Location Map**) which hosts a prospective resource (refer **Table 1**) which the Company will be aiming to progressively expand and mature with its exploration activities.

Table 1 – Prospective Resource Statement for Natural Hydrogen

Gold Hydrogen’s Ramsay Project: Prospective Resources* of Hydrogen in ‘000 Tonnes – 30 Sept 2021										
PEL	Prospects	SPE PRMS Sub-class	1U Low Estimate	2U Best Estimate	Mean	3U High Estimate		Pg	Pd	Pc
PEL 687	All Prospects and Leads		207	1,313	4,187	8,820		22%	48%	10%
Yorke Peninsula										
PEL 687	Ramsay FB	Prospect	124	931	2,712	6,989		22%	50%	11%
PEL 687	Ramsay Lst	Prospect	10	70	191	492		26%	50%	13%
PEL 687	Maitland	Lead	7	26	40	92		17%	35%	6%
Kangaroo Island										
PEL 687	Navigator	Lead	34	152	280	678		19%	40%	8%
PEL 687	Kanmantoo	Prospect	32	134	237	569		25%	40%	10%

***This estimate of Natural Hydrogen Prospective Resources must be read in conjunction with the notes in the Company's ASX release of 13 January 2023.**

It should be noted that the estimated quantities of Natural Hydrogen that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration, appraisal and evaluation is required to determine the existence of a significant quantity of potentially recoverable Natural Hydrogen.

The Company confirms that it is not aware of any further new information or data that materially affects the estimates of Natural Hydrogen Prospective Resources (as originally estimated on 30 September 2021), and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed.

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

The Board looks forward to providing regular updates to the market as preliminary exploration efforts continue on the Company's flagship Ramsay Project.

This announcement has been authorised for release by the Board.

On behalf of the Board

Karl Schlobohm

Company Secretary

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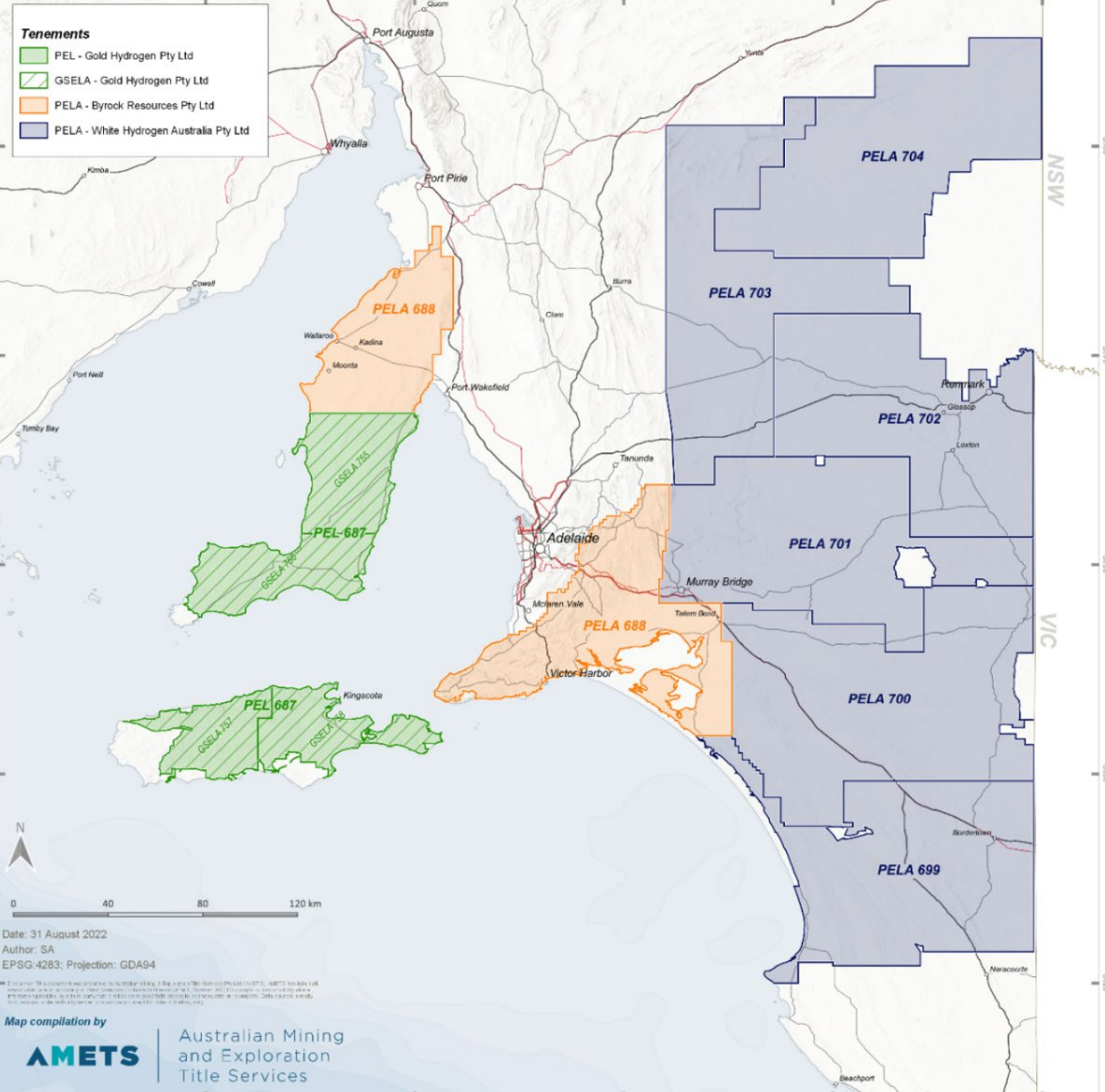
QPRRE Statement

The Prospective Resource Statement in this announcement is based on, and fairly represents, information and supporting documentation prepared by independent consultants "Teof Rodrigues & Associates" with an effective date of 30 September 2021, and which forms part of the Company's Replacement Prospectus dated 29 November 2022. The Prospective Resource Statement, together with all relevant notes, also appears in the Company's ASX release of 13 January 2023.

The Prospective Resource Statement has been included in this announcement under the approval of Mr Billy Hadi Subrata, Chief Engineer for Gold Hydrogen, who is a Qualified Petroleum Reserves and Resources Evaluator. Mr Hadi Subrata confirms that, as at the date of this announcement, there is no change to information or additional information, since the effective date of 30 September 2021, that would materially change the estimates of prospective resources quoted.

Forward Looking Statement / Future Performance

This announcement may contain certain forward-looking statements and opinion. Forward-looking statements, including projections, forecasts and estimates, are provided as a general guide only and should not be relied on as an indication or guarantee of future performance and involve known and unknown risks, uncertainties, assumptions, contingencies and other important factors, many of which are outside the control of the Company and which are subject to change without notice and could cause the actual results, performance or achievements of the Company to be materially different from the future results, performance or achievements expressed or implied by such statements. Past performance is not necessarily a guide to future performance and no representation or warranty is made as to the likelihood of achievement or reasonableness of any forward-looking statements or other forecast. Nothing contained in this announcement, nor any information made available to you is, or and shall be relied upon as, a promise, representation, warranty or guarantee as to the past, present or the future performance of Gold Hydrogen Limited.



Location Map – Gold Hydrogen Group tenement and areas under application located in South Australia.