



Hydrogen
Society
of Australia

Looking backwards, looking forward!

Hydrogen is marching on – will you join us?

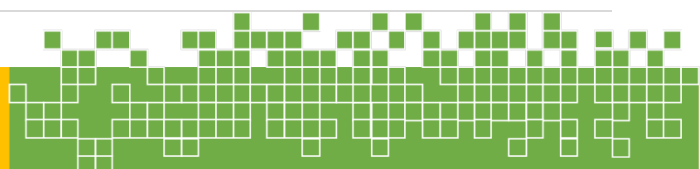
In this month's newsletter....

- Message from the HSA President [Pg 1]
- Featured event – Australia Hydrogen Day [Pg 2 - last chance to register]
- Chapter Spotlights [pg 3 to 5]
- There is a lot happening in the hydrogen space [Pg 6 to 7]
- Upcoming Events [Pg 8 and 9]
- Career Opportunities and Member Benefits [Pg 10 and 11]
- Snippets of Hydrogen making moves around the world [Pg 11 to 13]
- We value the support of our corporate partners, academic and research institutions [Pg 14]

Message from the HSA President – Adam Osseiran

Our community is growing rapidly, with five chapters now led by outstanding leaders and dedicated committee members, all driven by the mission of the Hydrogen Society of Australia (HSA) to "*improve the sustainability of our nation.*" You can learn more about these inspiring chapters in the HSA Chapter Spotlights below. A heartfelt thanks goes out to them, to all our members, and to our vibrant community across Australia. We encourage you to reach out, get involved, and contribute your skills by joining your state's committees and working groups.

It is also exciting to witness the increasing activity around hydrogen both in Australia and globally. Many of these events are either co-organized or supported by HSA. In this newsletter, you will discover upcoming events that might interest you, such as HiTeNP-4 in Adelaide and All-Energy Australia in Melbourne, both scheduled for late October. The next major event is fast approaching: **Australia Hydrogen Day (AHD)**. This year, the 6th AHD will be celebrated in both Western Australia and Queensland, while other states are already planning for AHD 2025. We welcome everyone to join us, either in person or online, to celebrate this important occasion. Additionally, the WA chapter has submitted a proposal for the WA Parliament to officially recognize October 8th as **WA Hydrogen Day**. Next step, why not a national Hydrogen Day. Hydrogen is marching on. Be a part of our efforts towards a sustainable Australia as we continue to advance hydrogen innovation. If you are not yet a member of HSA, please consider joining us to get access to free or discounted events, training material and the latest information in the hydrogen space - [Sign up here](#). Stay tuned as we implement several improvements to our website and offering moving forward.



Featured Event – Australia Hydrogen Day – last chance to register

Date: 2024 October 08 **Online:** National Broadcast **In-person** events in Perth and Brisbane

Background: On the 8th of October, as the world marvels at the significance of the number 1.008 – the atomic weight of Hydrogen – we in Australia will continue to celebrate our vision, our commitment, and our journey in leading the hydrogen revolution. A bit of background below:

- In 2015, the United States lit the beacon, marking the inauguration of the National Hydrogen and Fuel Cell Day.
- Four years later, in 2019, Innovate Australia picked up that mantle, pioneering the first Australian Hydrogen and Fuel Cell Day under its Hydrogen Society of Australia program (HSA).
- The HSA was an initiative that blazed its own trail, becoming an independent entity and taking the solemn pledge to organize and champion the October 8th events year after year.

The HSA held a very successful event on 2023 October 8th to celebrate Australia's 5th International Hydrogen and Fuel Cell Day. You can access recordings of last year's presentation on our website here: [Australia Hydrogen Day – 5th \(Inter\)National Hydrogen and Fuel Cell Day](#).

The 6th Australian Hydrogen and Fuel Cell Day (AHD 2024) is coming up again in October. AHD 2024 is an opportunity for industry, academia, and government to connect with each other and with the wider community. As Australia continues to work towards developing a sustainable energy mix for the future, creating public awareness of hydrogen's role in the mix is essential for a smooth and supportive adoption. Together with our partners, we aim to make Australia Hydrogen Day a platform for community to connect with the hydrogen industry and become part of the conversation that is Australia's energy future.

There is no cost to attend the online sessions or the in-person sessions in Perth and Brisbane, with complimentary catering provided by HSA and our sponsors. However, you must register beforehand to gain access, as spaces for the in-person events are limited. Click on the following links for more information and to register:

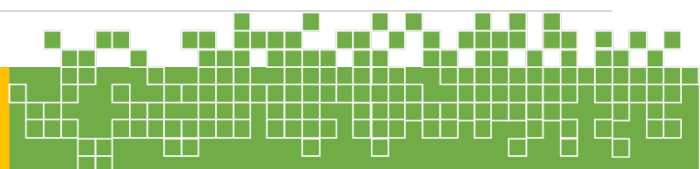
- Perth In-person or online [6th-australia-international-hydrogen-day-western-australia-edition/](#)
- Brisbane in-person [6th-australia-international-hydrogen-day-queensland-edition/](#)

As a lead in to Australia Hydrogen Day, the HSA is collaborating with the **Sustainable Energy Now (SEN)** to deliver a knowledge sharing event on the topic of hydrogen's role in the sustainable energy mix "**Green Hydrogen: Where to Next**". Our President Adam Osseiran will be presenting on behalf of the HSA. The event will take place on Monday evening October 7, from 5:00pm to 8:00pm AWST, at the State Library of Western Australia. There is a modest fee (\$10.00) to cover the costs of catering and venue, which is a 50% reduction for members of HSA and/or SEN. Click on the following link for more information and to register:

<https://hydrogensociety.org.au/product/green-hydrogen-where-to-next/>

We hope you are available to participate in these critical and informative knowledge sharing events. The focus and objectives are well captured in the following AZONetwork article published by our NSW Chapter Committee member Dr. Ian Birkby (CEO AZONetwork).

<https://www.azocleantech.com/news.aspx?NewsID=35193>



HSA Chapter Spotlights:



South Australia Chapter Update:

Over the past two months, the South Australia chapter has been actively engaging with the hydrogen community through various initiatives. On August 1st, HSA-SA, in collaboration with the Institute for Sustainability, Energy and Resources (ISER) at the University of Adelaide, successfully hosted a networking event in Adelaide. The event brought together students, researchers, academics, and professionals from the hydrogen sector, fostering discussions on green transition topics in a relaxed and friendly atmosphere. Looking ahead, plans are underway for a major event on National Hydrogen and

Fuel Cell Day, taking place on **October 8th, 2025**. The SA chapter is organising a symposium to further discussions on hydrogen and fuel cell technologies. If you're interested in presenting, joining a panel, or volunteering, we encourage you to reach out to Hassan Khalili (Hassan.khalili@adelaide.edu.au), the deputy chair for the HSA-SA Chapter, representing Dr. Rachele Kernen. Stay tuned for more exciting updates as we continue to drive collaboration and innovation within the hydrogen sector!

Victoria Chapter Update:

Over the last months, the Victorian Chapter has grown with two more excellent committee members:

- Dr Mary Wang (Dir, RSM Australia) and
- Vanyssa Ong (Dir, Renewable Energy Advisory) who are actively engaging in hydrogen and renewable sector in Australia by organizing networking events for professionals.

Our HSA-Victorian Chapter Lead, Dr. Melinda Krebsz (RMIT University) has recently been an invited speaker and panellist at the event titled **"Future Workforce in the Power and Energy Sector"** organized by the Monash Energy Club (MEC) and the Society of Monash



Dr. Melinda Krebsz (Vic Chapter Chair)

Electrical Engineers (SMEE). Refer to **Pg 7** for more information.

The Victoria Chapter is planning to organize a few networking events this year and will be focusing on conference organization in 2025. If you would like to be informed about the future events of the HSA-VIC chapter, please feel free to reach out Dr. Melinda Krebsz (melinda.krebsz@rmit.edu.au). Our Victoria chapter is opened to any collaboration and welcoming new committee members who would like to contribute to the growth of the hydrogen energy sector.



Left to right: Sagar Jadhav, Maheshika Perera, Kinley Dorji, Arshdeep Kaur, Haneesha Ponnaru (Lorie Jones on screen)

Queensland Chapter Update:

We are proud and active members of the Queensland chapter of the Australian Hydrogen Society, committed to advancing hydrogen technology for a sustainable future. Our leadership team comprises Arshdeep Kaur (QLD Chapter Lead) and QLD Committee members Sagar Jadhav; Maheshika Perera; Kinley Dorji; and Haneesha Ponnaru.

Together, we are organizing Australia's Hydrogen Day on October 8th 2024, at the Queensland University of Technology (QUT), a pivotal event aimed at promoting the role of hydrogen in Australia's energy transformation. We are collaborating with Lorie Jones (HSA Vice-President) and Adam Osseiran (HSA President) to coordinate at a national level.

As Australia works towards becoming a hydrogen-powered economy, we in Queensland are eager to share the expertise of key thought leaders and innovators in this field. The event will serve as a valuable platform for knowledge exchange, offering insights into the latest hydrogen research, technologies, and policies shaping the future of clean energy in Australia. In addition to Hydrogen Day, we are also excited to announce the formation of a **Hydrogen Club** at QUT. This initiative will create a community of students, both undergraduates and postgraduates, who share a passion for the potential of hydrogen fuel. Through various activities, seminars, and collaborative research projects, the club will help raise awareness about the importance of hydrogen and encourage greater involvement in this field. We believe this is a unique opportunity to inspire the next generation of hydrogen professionals and contribute to Australia's goal of achieving net-zero carbon emissions by transitioning to a hydrogen-based fuel.



Charles James, NSW Chapter Lead

New South Wales Chapter Update

Over the past two months, the New South Wales Chapter has been actively reshaping its strategy with the appointment of new committee members. [More details here](#) With 21 active members in NSW, we aim to grow this number in the upcoming financial year. A key focus for us moving forward will be our engagement with the hydrogen community, aligning ourselves with the \$3 billion **NSW Hydrogen Strategy**. In collaboration with Macquarie University, we've also been promoting the **ARC Training Centre for Net-Zero Energy Carriers Safety and Reliability**.

This initiative pioneers clean technology for a sustainable future and seeks industry partnerships to further its impact. The ARC Training Centre is dedicated to addressing safety and reliability challenges across the energy supply chain, driving Australia towards its vision of a resilient, net-zero economy. By tackling industry issues, advancing cutting-edge technology, and nurturing the next generation of experts, the Centre is paving the way for safe decarbonisation solutions. Stay tuned for more updates as we continue to foster collaboration and innovation within the hydrogen sector. Exciting developments are on the horizon, and we look forward to sharing them with you soon. Please get in touch if you would like to contribute nsw@hydrogensociety.org.au.

Western Australia Chapter Update

The WA Chapter is receiving grant funding from the Western Australian Government in order to deliver a range of activities designed to:

- increase the value of investment in Western Australia's renewable hydrogen industry,
- demonstrate the creation of local jobs, building economic resilience, and increasing socio economic benefits to Western Australia,
- increase skills, capacity and knowledge relevant to renewable hydrogen technologies,
- promote cost efficiencies that will maximise Western Australia's competitive and comparative advantages in renewable hydrogen technologies,
- increase the opportunity to explore collaboration and partnerships with other aligned industries, and/or
- compliment and align with other strategic priorities for the Western Australian Government.

One of our key initiatives over the last few months is to deliver the 6th Australian Hydrogen and Fuel Cell Day (AHD 2024) coming up on October 08, thanks to the efforts of Dr Furat Dawood (WA Chapter Lead) and his WA Committee members David Cavanagh (MD Integrated Energy Pty Ltd); Mauricio Galicia (Technip Energies); Suresh Prabhakaran (Alstom); Kate Kendall (Siemens) and Al Hanoof Al Maamari (Sustainable Energy Solutions). Refer to **Pg 2** for more details and to register.



We are also focused on knowledge sharing by supporting the Hydrogen Hub initiatives in Western Australia and delivering community education and awareness training sessions (Hydrogen101). We delivered an engaging Carnarvon Community Awareness Workshop for the Gascoyne Development Commission in May 2024, and are planning to deliver similar events in the south west region of WA moving forward. If you would like to contribute to these HSA Western Australia chapter initiatives, please contact: Cedric Pierson at contact@hydrogensociety.org.au

There is a lot happening in the hydrogen space!

DNV Hydrogen Breakfast Seminar 2024

Date: 22th August 2024

Location: Melbourne



Our Victorian Chapter lead, Dr. Melinda Krebsz attended the DNV Hydrogen Breakfast Seminar 2024 in Melbourne, and provides a summary of the event from her perspective. The DNV breakfast began with the welcome notes of Scott Trevean. Following the introduction Scott has shared with the participants the principles and procedure of electrolyser certification. He showed some interesting videos for better understanding of safety and hydrogen explosions and for understanding the differences between the different conditions of the systems.

After certification, we heard Sofia Hazarabedian's presentation about the potential of hydrogen and metals in Australia, such as green steel and nickel. Her presentation has shown the green metal opportunities for the Australian economy in general and the detailed steelmaking processes and where the changes can be implemented into the system. Following the early morning presentations, attendees had a chance to expand their network over a coffee break.



During the second part of the DNV Hydrogen Breakfast Seminar, there were two interesting presentations about the technology qualification by Oliver Royet and the life cycle assessments for hydrogen industry by Yasmin Sanchez Pujol.



Future Workforce in the Power and Energy Sector

Date: 29th August 2024

Location: Clayton, Melbourne

Our HSA-Victorian Chapter lead, Dr. Melinda Krebsz (RMIT University) has recently been an invited speaker and panellist at the event titled “Future Workforce in the Power and Energy Sector” organized by the Monash Energy Club (MEC) and the Society of Monash Electrical Engineers (SMEE).



The event brought together industry and academia to discuss the essential general and technical skills needed for the future workforce in the power and energy sector.

The participants of the event were encouraged to meet with Melinda Krebsz (RMIT University), Maria Jose (CitiPower and Powercor) and Linus Mayes & Dr. Ahvand Jalai from Australian Energy Market Operator (AEMO).

Dr. Melinda Krebsz presenting at the Monash Energy Club event

Professionals at different stages of their career shared their thoughts and personal experiences with the audience. The very engaging talks were followed by a panel discussion and Q&A session that was led by Dr. Mehdi Ghazavi Dozein (Monash University).

The event has provided a great opportunity for both students and professionals to network and understand the career pathways in the future power and energy sector.



Dr. Mehdi Ghazavi Dozein leading the panel discussion and Q&A Session

Upcoming Hydrogen Events supported by HSA in Partnership with other Associations:

The Hydrogen Society of Australia is willing to consider partnership agreements with event coordinators to deliver quality events on hydrogen and the energy transition, particularly those conferences to be held in our State Chapters. We have secured the following complimentary and/or discounted registration fees for our HSA members.

Fourth International Forum on Zero Carbon High Temperature Minerals Processing (HiTeNP-4)

Date: 2024 October 21 to 23

Location: Adelaide SA

Venue: National Wine Centre

HiTeMP-4 will bring together global leaders from industry, research, government and non-government agencies, investors and policy-makers, to chart the pathway to net-zero for heavy industry. It will identify the key drivers, barriers and enablers for the sector's transition to net-zero, to identify the global best practice in the spheres of technology, regulation/policy, finance and markets. Themes for HiTeMP-4 will include:



- Pathways to net-zero iron and steel
- Pathways to net-zero alumina
- Pathways to net-zero cement and lime
- Pathways to net-zero critical minerals
- Powering the Transition for Industry – net-zero energy and fuels
- Carbon capture and re-use from heavy industry
- Beneficiation & recovery: upgrading, coproducts and circularity
- Alternate emerging heavy industry processes and technologies
- Finance, Policy, Regulation, and Environment, Social, and Governance (ESG) for heavy industry

Join us and participate in the discussion to help shape a sustainable future and prepare for the new, low-carbon economy. Find out more on the event page:

<https://www.adelaide.edu.au/cet/hitemp/registration>

Connecting Green Hydrogen APAC2025

Date: 2025 July 17 & 18

Location: Melbourne

Venue: MCEC, South Wharf

The HSA is partnering with the organisers of this event to secure valuable benefits for our members. Further information to be advised, in the meantime [click here for the website link](#)

Upcoming hydrogen related events around the globe – Save the dates!

2024 10 03_Global Hydrogen Projects Summit_Copenhagen

2024 10 07_SEN and HSA Collaborative Event – Green Hydrogen: Where to Next – **refer to page 2**

2024 10 08_National Australia Hydrogen Day – across Australia – **refer to page 2**

2024 10 08_Energy Transition Forum_London

2024 10 17 to 18_HILT CRC Annual Conference: De-risking Decarbonisation – Adelaide [Click for details](#)

2024 10 21 to 23_ Fourth International Forum on Zero Carbon High Temperature Minerals Processing (HiTeNP-4) – Adelaide **[refer to pg 8]**

2024 10 23 to 24_AUSJET24 expo – Melbourne - <https://ausjetconnect.com.au/>

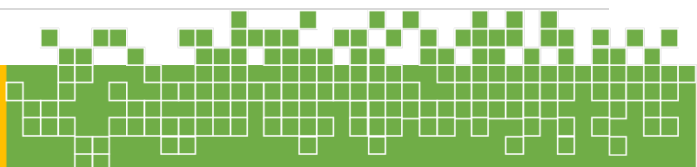
2024 10 23 to 24_All Energy Australia_Melbourne – info@all-energy.com.au

2024 10 29 to 31_Australia Natural Hydrogen Conference – Adelaide -[Click here for details](#)

2024 11 04 to 06_SAF and Aviation Decarbonisation Roadmap_Singapore

2025 03 11 to 13_AOG/EXA2025

2025 07 17 & 18_Connecting Green Hydrogen APAC 2025 – Melbourne - [Click here for details](#)



Career Opportunities:

There are a number of academic and employment opportunities highlighted in our HSA Knowledge Portal including those listed below:

UNSW PhD Candidate

The University of New South Wales (Sydney, Australia) is looking for a PhD candidate to work on an Australian Research Council-funded project in Electrochemical Nitrogen Reduction in the School of Chemistry. Please apply if you have a passion for research and wish to pursue a career in the fields of clean energy and sustainability such as: Energy storage and conversion; Hydrogen economy; and Decarbonisation technologies.

[Click here for further information.](#)

UNSW is also offering a number of PhD Scholarships on the following topics:

Electrosynthesis of Ammonia [Click here for more information](#)

Fuel Cells UNSW [Click here for more information](#)

CO2 Electroreduction [Click here for more information](#)

Water Electrolysis [Click here for more information](#)

Curtin University - Job opportunities with International Futures Lab – Redefine H2E (Munich)

Expression of Interest for Researcher positions at the Technical University of Munich: An opportunity provided by the Technical University of Munich, Curtin University, and the International Future Lab: Redefine H2E. Working under the supervision of Professor Peta Ashworth (Director of the Curtin Institute for Energy Transition), we have an exciting opportunity available for a Core Scientist. [Click on here for further information.](#)

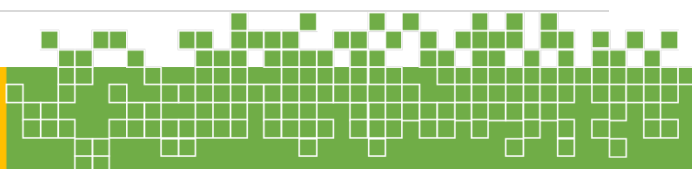
CSIRO Industry PhD program

If you are interested in doing a PhD in Hydrogen Fuel Cells, agriculture and vehicles, this is a brilliant PhD opportunity for you through the [CSIRO's](#) Industry PhD program. You will be working across the university-industry-CSIRO interface to drive the technology and its adoption in Australia, and gain expertise in this emerging field. It also offers an excellent stipend, a four-year scholarship package of \$46,000 per annum. The position is open to AUS/NZ Nationals and AUS PR holders only.

For details, follow the link below. You can also get in touch with A/Prof Surbhi Sharma by email for further discussions at surbhi.sharma@federation.edu.au
<https://lnkd.in/gKYfTVfi>

For the full list of opportunities currently advertised on the HSA website, [click on this link](#)

If you have hydrogen research or employment opportunities you would like to promote through HSA, please email us at: Contact@hydrogensociety.org.au



Member Benefit – Hydrogen Standard subscription (HSA members discount)

The Hydrogen Society of Australia (HSA) has partnered with The **Hydrogen Standard** to offer HSA members a significant discount to gain access to the **Global Government Hydrogen Platform**, a renowned source of hydrogen policy data. <https://thehydrogenstandard.com/hydrogen-global-governance-platform/>

Subscribers will have access to a global, regional and country specific overview on a host of topics outlined in various government hydrogen roadmap strategies, such as funding arrangements, R&D interests, infrastructure commitments, fuel cell vehicle targets, electrolyser capacity commitments, trade agreements and more.

Thanks to the collaboration between the Hydrogen Standard and the Hydrogen Society of Australia, HSA members will get a significant discount on the initial subscription to the platform (75% for students; 52% for individuals and 80% for Enterprise members). If you are interested in subscribing to the **Hydrogen Global Governance Platform** at a significant discount, please select the Hydrogen Standard subscription product within our HSA Members Only portal: [Click here for further information.](#)

Member Benefit – World Hydrogen Leaders Subscription (HSA members discount)

The Hydrogen Society of Australia (HSA) has secured a significant discount for individual members to gain access to the **World Hydrogen Leaders** global portfolio of events



(both live and virtual conferences), and training sessions and intelligence reports. The summer sale is on now through to the end of August, with an additional 20% discount available for HSA members. Click on this link for more information. <https://www.worldhydrogenleaders.com/>. HSA members can access the discount code by first logging into your membership portal and then selecting the World Hydrogen Leaders subscription product within the Members Benefit tab of our HSA membership portal.

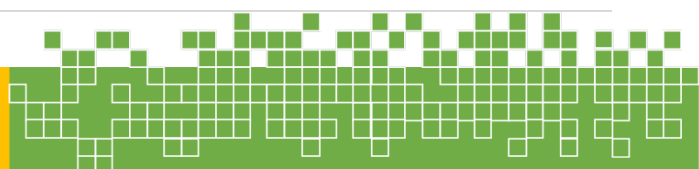
Member Benefit – Knowledge Sharing and Presentation Materials

Log in to your password protected HSA members portal and you can access the videos and PowerPoint presentations from past events in the **Knowledge Centre**: <https://hydrogensociety.org.au/knowledge-centre/videos/>. HSA members can also view the event proceedings and find the links to the various presenters under **Past Events**: <https://hydrogensociety.org.au/hydrogen-space-2023-networking-and-presentations/>

Snippets of Hydrogen making moves around the world

Accelerate Hydrogen Newsletter extracts from the Hydrogen Insights magazine

- 2024 09 19:** Chinese electrolyser manufacturers will completely undercut their Western rivals, even in the latter's home markets, by 2040 if trade remains free, according to recent analysis by research firm BloombergNEF (BNEF). Both Chinese and Western green hydrogen projects could have their capex halved by 2050, assuming free trade allows European and US developers to use cheap electrolysis equipment imported from China. The research house notes that if Europe and the US implement strict trade barriers on Chinese-made electrolysis equipment, including stacks and other pieces like gas/liquid separation and purification units, this will increase Western projects' 2050 capex by 54%. [Click here for more details](#)

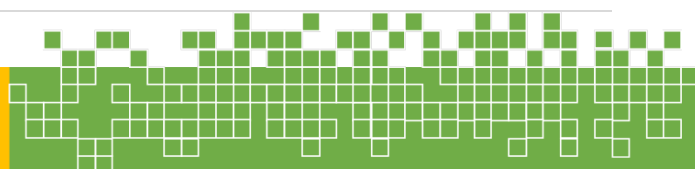


- **2024 09 18:** A US start-up that claims it can make baseload electricity for less than \$0.01 per kWh has secured 11 patents for its geothermal technology, with a view to deploying it to make green hydrogen-based fuels. Florida-based Magma Power, founded in 2022, also claims that green hydrogen made using its closed-loop geothermal technology can be produced for under \$1/kg. The 11 patents cover the use of the technology in green fuel production, renewable baseload electricity production, bitcoin mining and artificial intelligence data centres. [Click here for more details](#)
- **2024 09 12:** Two of BP's flagship green hydrogen projects will not produce any H2 in their first phases of development, a senior executive told the Asia-Pacific Hydrogen Summit in Brisbane. Lucy Nation, BP's Vice-president, hydrogen, Australia and Asia-Pacific, said that the initial stage of its 26GW Australian Renewable Energy Hub (AREH) green hydrogen project in northern Western Australia will produce 1GW of wind and solar power for the local grid, whereas green hydrogen for local industry will not be produced until Phase two. [Click here for more details](#)
- **2024 09 12:** Germany will hold a special A\$660m (\$444m) auction exclusively for imports of green hydrogen from Australia, a senior German government official announced at the Asia-Pacific Hydrogen Summit. The joint declaration of intent on the bilateral auction was signed at the conference by Australia's climate and energy minister, Chris Bowen, and Anja Hajduk, state secretary at the German Ministry for Economic Affairs and Climate Action. [Click here for more details](#)
- **2024 09 11:** The Mauritanian parliament has approved a key green hydrogen law that opens the doors to billions of dollars' worth of investment in renewable H2 projects in the country. The law, or "code", lays out the tax incentives and fiscal regime for green hydrogen producers in Mauritania — providing the regulatory clarity necessary for developers to proceed with their projects in one of Africa's windiest and sunniest countries. [Click here for more details](#)

Extracts from United Hydrogen Limited newsletters –

The following articles highlight that the advancement of Australia's green hydrogen infrastructure is already underway, with strong support from governments and corporations around the world recognising hydrogen as the fuel of the future:

- **2024 09 28_**Viva Energy said construction is "well underway" on a publicly accessible green hydrogen refuelling station being developed opposite its oil refinery in Geelong, Victoria. The refuelling station is part of its \$43.3 million project that also involves the installation of a 2.5 MW electrolyser. The facility, known as the New Energies Service Station, will produce green hydrogen using renewable energy sourced in part from an offtake agreement with Spanish renewable energy developer Acciona Energia. Viva, which operates about 1,300 Shell and Liberty service stations in Australia and supplies about 25% of the country's liquid fuel requirements, said the 2.5 MW electrolyser will be capable of producing more than 1,000 kilograms of green hydrogen per day.
- **2024 09 24_**German energy company RWE has signed a memorandum of understanding to buy 250,000 tonnes of green hydrogen-based ammonia, meeting the EU's definition of a "renewable fuel of non-biological origin" (RFNBO), from Indian project developer AM Green. The Indian firm — controlled by businessmen Anil Chalamalasetty and Mahesh Kolli who had also founded green energy group Greenko — had set up its green ammonia business late last year with the ambition of producing five million tonnes a year of NH3 and supplying it to markets such as Germany, Japan, South Korea, and Singapore, from late 2025. AM Green has already taken a final investment decision (FID) on a 1.3GW green hydrogen and ammonia plant in Kakinada, along India's western coast, the first phase of which will produce one million tonnes a year of green ammonia.
- **2024 09 23_**Gas distributor, Redexis, has begun injecting green hydrogen into the Spanish natural gas grid for the first time using the country's first-ever hydrogen pipeline, in what is believed to be the biggest fully commissioned renewable hydrogen blending project in Europe. The Spanish company describes the

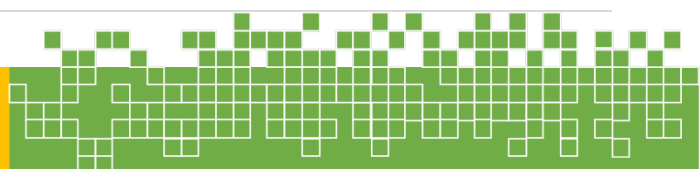


injection as a “historic milestone in the country’s energy transition”. The 3.2km pipeline takes green hydrogen from Acciona Energía and Enagás’ 2.5MW electrolyser in Lloseta, on the Spanish island of Mallorca, to the Cas Tresorer injection point on the island’s existing 1,400km gas grid, which serves 115,000 homes and 2,000 businesses. The resulting 2% hydrogen blend — which requires all the output from the solarpowered Lloseta facility — will reduce CO2 emissions by between 1,265 and 3,829 tonnes a year.

- **2024 09 21:** South Korea’s Ministry of Environment (MoE) has unveiled a new national target to have 21,200 hydrogen-powered buses on the country’s roads by 2030 — up from 1,185 today. The country is also aiming “to replace 25% of all metropolitan buses with hydrogen buses by 2030”, said the ministry in a press release, adding: “Intercity buses, along with city and charter buses, are the main targets for conversion”. Hyundai — currently the only hydrogen bus maker in the country — stated in April that it was ramping up hydrogen bus production capacity at its factories in the city of Jeonju from 500 a year to 3,000. Doosan’s HiExium Motors division is also due to start producing hydrogen buses in South Korea by the end of this year.
- **2024 09 20:** The first Japan Hydrogen Fund has been launched with over \$400m committed by Japanese industrial and financing majors, along with TotalEnergies. Managed by equity firm, Advantaged Partners (AP) and headed up by the Japan Hydrogen Association (JH2A), the fund is “dedicated to developing the low-carbon hydrogen value chain. Seeing participation from Toyota, Iwatani, Sumitomo Mitsui Banking, MUFG Bank, Tokyo Century, Japan Green Investment Corp. for Carbon Neutrality and the Bank of Fukoka, the fund will invest in hydrogen production, storage, transportation and use facilities.

Extracts from WA Business News

- **2024 05 20_**The CSIRO started the latest burst of interest in natural hydrogen – called white or gold hydrogen to differ it from grey hydrogen (from gas) and green hydrogen (from water) – in a paper published last July focused on a search in South Australia. A key finding in that paper was that hydrogen can be produced underground by ironrich rocks reacting with water, or from microbes producing the gas. Gold Hydrogen, an Adelaide-based company chaired by former foreign minister Alexander Downer, is starting to attract followers as it explores at a number of sites. Encouraging early results have driven the ASX-listed company’s share price up by 374 per cent during the past 12 months, from 35 cents to \$1.66, valuing the stock at \$127 million. Gold Hydrogen estimates that natural hydrogen will cost \$1 per kilogram to produce, substantially lower than the \$5.60/kg for grey hydrogen gas and between \$4.70/kg and \$25.50/kg for green hydrogen produced using renewable energy. If that \$1/kg cost estimate is correct it’s easy to see why the case for natural hydrogen could soon move out of the science phase into the business phase, possibly bypassing the manufacturing stage and going straight for underground gas.



We acknowledge the support of our corporate members, academic and research institutions!

[Click here to find out more about their technical services and corporate offerings in the hydrogen space.](#)

Corporate Enterprise Supporters

ABB
AMSc
AZoCleantech
BE&R Consulting
Cientifica
Citic Pacific Mining
Draeger Australia Pty Ltd
Endress+Hauser
Environmental Clean Technologies Ltd

Ezzi Vision
Gascoyne Development Commission
Gascoyne Green Energy
Gexcon
Good Water Energy Ltd
HF Integration
Horizon Power
Hybrid Systems Australia (Pacific Energy)

Hydrogen Energy Pty Ltd
Integrated Energy Pty Ltd
Intercontinental Energy
Infinite Green Energy
WOMA
Pipeline Actuation Control
Sheoak International
Siemens

Academic and Training Institutions

Harry Butler Institute / Murdoch University
Edith Cowan University
Queensland University of Technology
Global Energy Learning Solutions
GlobeH2E Arc Training Centre
The Hydrogen Standard
University of Adelaide

Innovation /Research

Innovate Australia
CO2CRC Ltd
FenEx CRC

Collaborators

Zentient
180 DC Consultants
Liberty Flexible Workspaces

We are all in this together...

Please share this newsletter with your network, as they may be interested in joining the HSA.

Together we can foster a hydrogen society for Australia and a global renewable energy future.

Hydrogen is marching on - will you march with us?

<https://hydrogensociety.org.au/>

Contacts



LEVEL 12, 197 ST GEORGES TCE, PERTH 6000