

UPDATE #12

portkembalahydrogenhub.com.au

Date: 20 July 2021

Great to be able to provide another Port Kembla Hydrogen Hub Update. This Update includes information on;

- Zero Emission Heavy Road Transport Trial
- Future Mobility Day #2
- Hydrogen Hub Showcase #2
- Hydrogen Hub Meeting #7
- UOW developed hydrogen technology commercialised

Zero Emission Heavy Road Transport Trial

A major milestone has been achieved in Australia's first zero emission heavy road transport trial with Coregas placing the order with Hyzon for two hydrogen fuel cell electric prime movers. A key enabler of the heavy road transport trial is the construction of a hydrogen refuelling station at the Coregas Port Kembla site that has been supported through a \$500,000 grant from the NSW Government.

<https://hyzonmotors.com/hyzon-motors-to-deliver-australias-first-hydrogen-powered-trucks-to-coregas-a-wesfarmers-company/>

The screenshot shows the Hyzon website header with navigation links: About, Vehicles, Technology, Hydrogen, ESG, Investors / Media, Careers, and Contact. The main content area features a white hydrogen-powered truck. The headline reads: "Hyzon Motors to deliver Australia's first hydrogen-powered trucks to Coregas, a Wesfarmers company". Below the headline, there are links for "Home" and "Media Release". At the bottom of the article preview, it repeats the headline: "Hyzon Motors to deliver Australia's first hydrogen-powered trucks to Coregas, a Wesfarmers company".

Jul 14, 2021

Coregas, a Wesfarmers company, has signed a vehicle supply agreement for two of Hyzon Motors' hydrogen fuel cell-powered prime mover trucks, to be delivered in 2022

Vehicles expected to be the first hydrogen-powered heavy trucks operating in Australia, deployed at Coregas' hydrogen production facility in New South Wales

Coregas expected to build the first commercial hydrogen refuelling station in Australia, collaborating with Hyzon to drive greater uptake of hydrogen-powered heavy-duty vehicles

ROCHESTER, N.Y. and FARMINGTON HILLS, MI – July 14, 2021: Hyzon Motors Inc., a leading global supplier of zero-emission hydrogen fuel cell-powered heavy vehicles, today announced that its Australian subsidiary has signed a definitive vehicle supply agreement with Australian industrial gases company Coregas Pty Limited, a wholly-owned subsidiary of Australian Securities Exchange-listed conglomerate Wesfarmers (ASX:WES), to deliver two hydrogen fuel cell-powered prime movers to New South Wales, Australia.

This comes ahead of Hyzon's public listing via a proposed business combination with Decarbonization Plus Acquisition Corporation (NASDAQ: DCRB).

The Hyzon Hymax-450 prime movers are expected to be delivered in the first half of 2022 and to mark the first hydrogen-powered heavy vehicles to operate in Australia.

The prime movers should be immediately deployed upon arrival from Hyzon's manufacturing facility in the Netherlands, replacing Coregas' existing diesel fleet and transporting speciality gases, including hydrogen, to Coregas customers in Sydney and wider New South Wales. Decarbonization opportunities will be immediate with the project expected to deliver emissions reductions of 50% in comparison with trucks currently in use.

Coregas, a Wesfarmers company, is a leader in industrial gases with a 40-year history in the generation and distribution of industrial gases, including operating Australia's largest merchant hydrogen plant in Port Kembla, which supplies customers across various sectors including manufacturing and mobility. Coregas is actively pursuing hydrogen as an energy source through participation in projects aimed at accelerating the energy transition across Australia.

Coregas is also in the process of developing Australia's first commercial vehicle hydrogen refuelling station at its Port Kembla facility to support both the Hyzon hydrogen-powered heavy-duty vehicles and the refuelling of trucks and buses operators by third parties.

The project represents a strategic first step in developing a broader hydrogen ecosystem. Port Kembla and Illawarra-Shoalhaven are primed to be an epicentre of the emerging hydrogen sector possessing several advantages to foster the development of the thriving domestic and export hydrogen sector.

Hyzon and Coregas are actively pursuing the opportunity to scale up hydrogen-powered trucking. The parties are actively engaging with companies operating in and around the port on the opportunity to transition to hydrogen and decarbonize the heavy vehicle fleet. Currently, around 7,000 trucks travel between the region and Sydney each day.

The New South Wales Government has recently announced a \$70 million package to support the establishment of hydrogen hubs in the state, with Port Kembla identified as a priority location given its deep-water port, electricity and gas infrastructure, water recycling plant, road and rail connections, R&D presence, and sizeable heavy-duty vehicle fleet.

“Hyzon is proud to partner with Coregas in our shared effort to decarbonize Australia’s heavy trucking industry,” said Craig Knight, CEO and Co-Founder of Hyzon. “This partnership reflects two truths about the energy transition: first, that the technology is ready to be deployed now; second, that collaborative efforts are integral in accelerating this shift. We are excited to work with Coregas to introduce hydrogen-powered heavy-duty trucks to Australia.”

Coregas is delighted to partner with Hyzon on the first hydrogen-powered heavy trucks operating in Australia.

“Coregas is working hard to apply our expertise in hydrogen distribution, compression and storage to Australia’s transition to a hydrogen economy,” said Alan Watkins, Executive General Manager from Coregas. “Transforming the transport sector is a critical piece of the puzzle, and we are delighted to partner with Hyzon to operate these vehicles out of our Hydrogen refueling station in Port Kembla.”

Future Mobility Day #2

The second Future Mobility Day event was held on the 10 June 2021 with 50 attendees representing Port Kembla based heavy vehicle fleet operators and key stakeholders from industry, government, business and research organisations. With Stage 1 of the Heavy Road Transport Trial to be operational by mid 2022, the purpose of the event was on the next steps to achieve the next stage of the Trial. With capacity to refuel up to ten heavy vehicles at the Coregas refuelling station, there is the opportunity for other fleet operators to participate in Stage 2 of the trial. The Department of Regional NSW is facilitating a Heavy Vehicle Technology Cluster as part of the Port Kembla Hydrogen Hub initiative with a range of technology demonstration projects in development across different heavy vehicle types including buses, trains, material handling and mining equipment.



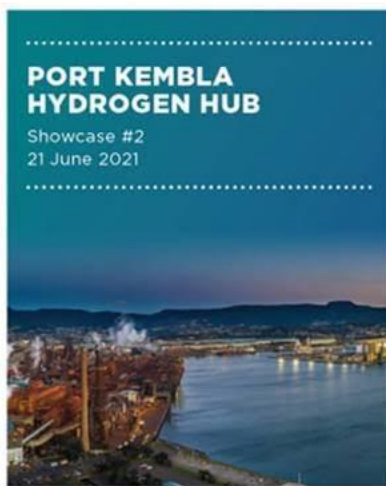
PROGRAM

Welcome	Adam Zarth Business Illawarra
Heavy Vehicle Cluster	Nigel McKinnon Dept of Regional NSW
Hydrogen Hub Development Initiative	Michael Probert Dept of Planning, Industry & Environment
Heavy Road Transport Deployment Project	Wodek Jakubik Coregas
Hydrogen Commercial Mobility Australian Fleet Opportunities	John Feenan Hyzon
Q & A + Networking	Adam Zarth Business Illawarra



Port Kembla Hydrogen Hub Showcase #2

The second Port Kembla Hydrogen Hub Showcase event was held on 19 June 2021 with representatives from CSIRO, Transgrid and the Zero Emissions team from the NSW Government's Department of Planning, Industry and Environment. The purpose of the event is to showcase the \$12.5bn of major energy projects that the Department of Regional NSW is facilitating as part of the Invest Wollongong initiative with Wollongong City Council and the University of Wollongong as well as existing infrastructure and assets. A big shout to the Inside Industry Visitor Centre for welcoming us and hosting lunch and BlueScope, Coregas and Energy Australia for hosting site visits as part of the event program.



UOW developed hydrogen technology commercialised

[New electrolyser company Hysata puts \\$2/kg green hydrogen within reach](#)

17 June 2021

Hysata, a company spun out of the University of Wollongong (UOW) to commercialise breakthrough Australian hydrogen electrolyser technology, officially opened its doors today with \$5 million in funding led by IP Group, with support from the Clean Energy Finance Corporation (CEFC).

Hysata is developing a new hydrogen electrolyser that has the potential to significantly shift the economics of green hydrogen production, bringing the Australian Government's \$2/kg target within reach.

Electrolysers, which use electricity to split water into hydrogen and oxygen, are the key technology for producing green hydrogen.

The Hysata electrolyser is based on breakthrough Australian technology developed by a team from the UOW headquartered [ARC Centre of Excellence for Electromaterials Science](#) (ACES), led by chemical catalysis and characterisation expert Professor [Gerry Swiegers](#).

Professor Swiegers has an outstanding track record in commercialisation, as the inventor of over 50 patent families and the founder of six start-ups, which have received an estimated \$100 million in investment.

The Hysata technology has been proven at lab-scale and the company, which has strong scientific, engineering and commercialisation experience, is now focused on developing and commercialising a full-scale system. Hysata is based at UOW's [Australian Institute for Innovative Materials](#).

Professor Swiegers said: "Inexpensive green hydrogen is needed for decarbonisation of multiple industries to put us on a path to net zero by 2050. Years of work from a great team at the University of Wollongong, along with great facilities and government funding are coming to fruition in a company that has the potential to have global impact. It's great to be working with IP Group — they have global reach and deep experience commercialising university research."

Paul Barrett, Head of Physical Sciences at IP Group Australia and Hysata Interim CEO said: "Hysata represents a once in a lifetime opportunity to reshape an industry. I'm delighted to be working with Professor Swiegers and the team at the University of Wollongong to bring this technology to market. This will have an impact both economically and environmentally on our path to net zero."

Michael Molinari, IP Group Australia Managing Director said: "We have been looking globally for new technology that can unlock the trillion-dollar opportunity in hydrogen. The Hysata technology is truly world-leading, and we're very excited to help the team in their mission to make green hydrogen a reality for Australia and the world. This company is a great example of the tremendous economic opportunities that can be unlocked by the research being done at our universities."

ACES Director Professor Gordon Wallace said: "These exciting developments are based on significant fundamental research that is taken from the translational pathway by a team with technical and commercial skills fully integrated. We, at ACES, are fully committed to such ventures."

Professor Jennifer L Martin, UOW Deputy Vice-Chancellor (Research & Innovation), said: "The innovative technology developed by Professor Swiegers and his team exemplifies our ambition to deliver fundamental research that leads to impactful change. UOW's research and innovation strategy is focused on creating knowledge for a better world, underpinned by our prioritisation of the

UN Sustainable Development Goals, which include the goals of affordable and clean energy, and climate change mitigation.”

Green hydrogen is widely acknowledged to be a crucial part of reaching net zero emissions globally, with the potential to meet up to 20 per cent of energy demand in a net zero global economy. Green hydrogen enables deep decarbonisation of hard-to-abate sectors, with potential applications including steel, heavy transport, shipping, aviation, chemicals, seasonal storage in the electricity sector, and gas grids.

It also presents an enormous economic opportunity, with global demand of trillions of dollars expected by 2050. Hydrogen and derivatives like ammonia represent a multi-billion-dollar export opportunity for Australia, due to its excellent renewable energy resources, ample land and established status as a leading energy exporter.

Regards

Nigel McKinnon

Deputy Director, Illawarra-Shoalhaven

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