

MEDIA KIT

Please find below a selection of background information and quotes from Port of Newcastle Hydrogen Hub Project partners for use in media relative to the 8 November funding announcement.

PORT OF NEWCASTLE

About Us:

Port of Newcastle is Australia's deepwater global gateway, the largest on the nation's East Coast. Port of Newcastle is more than a port. It exists to build Australia's prosperity with responsible, integrated and innovative supply chain solutions.

With trade worth about \$26 billion to the national economy each year, Port of Newcastle enables Australian businesses to successfully compete in international markets. As custodians of the region's critical asset, Port of Newcastle is diversifying its trade as it strives to create a safe, sustainable and environmentally and socially responsible future.

The Port currently handles 4,400 ship movements and 164 million tonnes of cargo annually. With a deepwater shipping channel operating at 50% of its capacity, significant port land available and enviable access to national rail and road infrastructure, Port of Newcastle is positioned to further underpin the future prosperity of the Hunter, NSW and Australia.

Please attribute the following quotes to Port of Newcastle CEO, Craig Carmody:

"We are delighted that ARENA has decided to partner with us for this important feasibility study into the Port of Newcastle Hydrogen Hub Project. We thank them for recognising Port of Newcastle's capabilities for this important regional development opportunity."

"It makes sense for the Port of Newcastle to play a substantial role in Australia's bid to become a significant renewable exporter. With our existing access to global energy supply chains, world-class infrastructure, strong industry partnerships, proximity to the existing demand, links to domestic road and rail networks, a local highly skilled workforce and proximity to renewable energy zones, Port of Newcastle is well placed to develop a hydrogen hub and export hydrogen as a tradable energy commodity."

"By partnering with Macquarie's Green Investment Group to develop the Port of Newcastle Hydrogen Hub Project, we are tapping into the expertise of a world-leading renewables developer, investor and financier. Our partnership brings together local knowledge and international experience to support the diversification of the Port, so that the Hunter continues to be an engine of economic growth for the region and New South Wales."

"We are committed to future diversification at Port of Newcastle, and this is a significant vote of confidence in our future ambitions to identify and embrace step-change opportunities to create thousands of low-carbon jobs in a new export industry, contribute to the Hunter, NSW and Australian economy, support local industries and customers, and ensure a stronger Port for the future. This project is part of our commitment to providing Hunter industries with more environmentally sustainable export pathways to global markets."

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“This project has the potential to create thousands of low-carbon jobs in a new export industry for the Port, the Hunter, NSW and Australia. Not only does it support our diversification plans here at the Port, but also our commitment to clean energy diversification, renewables projects and further opportunities to support local jobs and more environmentally sustainable export pathways to global markets.”

Media Contact:

Kristie Carter, Senior Manager Corporate Affairs & Strategy, 0459 951 735

MACQUARIE GREEN INVESTMENT GROUP

About Us:

Macquarie’s Green Investment Group (GIG) is a specialist in green infrastructure principal investment, project development and delivery, green impact advisory and the management of portfolio assets. Its track record, expertise and capability make it a global leader in green investment and development, dedicated to accelerating the green transition.

Initially launched by the UK Government in 2012 as the Green Investment Bank, it was the first institution of its type in the world. It was purchased by Macquarie in 2017 and combined with Macquarie Capital’s renewables team to create one of the world’s largest teams of specialist green infrastructure developers and investors. Now operating as the Green Investment Group, the business and its operating platforms have investments or operations in over 25 markets, more than 450 staff and a global development pipeline of over 35 GW.

Macquarie Group Limited (Macquarie) is a diversified financial group providing clients with asset management and finance, banking, advisory and risk and capital solutions across debt, equity and commodities. Founded in 1969, Macquarie employs 17,209 people in 32 markets. At 30 September 2021, Macquarie had assets under management of A\$737 billion. For more information, visit greeninvestmentgroup.com and macquarie.com

Please attribute the following quotes to Macquarie Green Investment Group’s Head of Industrial Transition and Clean Fuels, Kate Vidgen:

“We are delighted to be partnering with Port of Newcastle to progress an internationally significant green hydrogen hub and, in doing so, support the diversification of the Hunter’s economy. Countries around the world are actively pursuing green hydrogen opportunities but only a few of the projects we see have the Hunter’s attributes: a strong industrial heritage, a number of domestic and export use cases, and existing high-quality transport and energy infrastructure, and a highly trained local workforce.”

“We believe Port of Newcastle has significant scope for producing green hydrogen at the scale required to make it price competitive internationally. To put it into context, a 40MW electrolyser can generate sufficient green hydrogen to power 900 buses for a year.”

SUPPORTED BY PROJECT PARTNERS

“40MW capacity at the Port of Newcastle Hydrogen Project would support a diversity of use cases, and we are really looking forward to working with our project partners, who represent a range of industries, on this important feasibility study. Working with our project partners, collaborators and a range of stakeholders, this feasibility study will take us even closer to better understanding the range of domestic and export opportunities.”

Media Contact: Lisa Jamieson, Director Head of Media and External Communications, 0416 237 332

MACQUARIE ASSET MANAGEMENT AGRICULTURE

About Us:

Macquarie Asset Management is a global asset manager that aims to deliver positive impact for everyone. Trusted by institutions, pension funds, governments, and individuals to manage more than \$A735 billion in assets globally, we provide access to specialist investment expertise across a range of capabilities including infrastructure & renewables, real estate, agriculture & natural assets, asset finance, private credit, equities, fixed income and multi asset solutions.

Combining farming expertise, investment management discipline and a deep understanding of global commodities markets ‘in-house’, Macquarie Asset Management has become one of Australia’s largest diversified farmers. Today, Macquarie Asset Management and its managed funds responsibly invest in and operate 4.7 million hectares of farmland – producing red meat, grains and oil seeds.

Employing more than 450 people in rural communities, Macquarie Asset Management equips its farming businesses with best practice land management techniques, technology and infrastructure to improve quality and yield, whilst reducing their environmental impact.

Macquarie Asset Management is part of Macquarie Group, a diversified financial group providing clients with asset management, finance, banking, advisory and risk and capital solutions across debt, equity, and commodities. Founded in 1969, Macquarie Group employs more than 17,000 people in 33 markets and is listed on the Australian Securities Exchange. All figures as at 30 September 2021. For more information, please visit Macquarie.com

Please attribute the following quotes to Head of Macquarie Asset Management Agriculture, Elizabeth O’Leary:

“We are delighted to be working with Port of Newcastle and Macquarie’s Green Investment Group on the use case for green fertiliser. While much of the short-term focus in agriculture is in reducing scope 1 and 2 emissions, we are also looking at ways that we can meaningfully reduce scope 3 emissions in our supply chain. Fertiliser production is a significant contributor to scope 3 emissions for the agricultural sector; for OUR broadacre cropping operations, it contributes around 45% of the overall emissions profile. As the agricultural sector progresses on its decarbonisation pathway, new technologies will be critical to reducing the emissions of fertiliser production.”

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“Creating ammonia using a green hydrogen is the path to producing green fertiliser. Bringing the cost of green fertiliser down to parity is essential to it being a natural and accessible choice across the sector, which requires production at scale. It’s a new technology and there is a lot of work to do to prove up the use case, but we understand a 40MW electrolyser is the type of capacity that is required to achieve scale for domestic use.”

“For MAM Agriculture, exploring the feasibility of green fertiliser at the Port of Newcastle is consistent with our net zero by 2040 target. And if we can, through this study, determine the feasibility of green fertiliser for wide-scale agricultural use at an accessible price point, we hope this will be of interest to other farmers, particularly if it contributes to a green premium for their product. We also think the use of green fertiliser as one way of decarbonising our supply chains will be increasingly attractive to end consumers.”

Media Contact: Lisa Jamieson, Director Head of Media and External Communications, 0416 237 332

IDEMITSU

About Us:

Idemitsu is a diversified multinational with annual revenues of \$70bn and diverse interests across renewable energy, resources, advanced materials, lubricants, retail fuel and agriculture around the world. The company has set ambitious climate targets which include reducing carbon emissions by 4Mt and generating 4GW of renewable energy by 2030, on a pathway to reaching carbon neutrality by 2050.

Idemitsu is investigating renewable energy development and export opportunities through its subsidiary Idemitsu Renewable Developments Australia (IRDA). Idemitsu Australia established IRDA to leverage our global expertise and to ensure we can continue to contribute to regional communities.

Please attribute the following quotes to Chief Executive Officer, Idemitsu Australia, Steve Kovac:

“We’re excited to work with the Port of Newcastle and Macquarie in a study to examine the feasibility of bunkering and exporting green hydrogen and ammonia to Japan.”

“Idemitsu brings deep expertise in exporting to Japan and South East Asia to help develop a strong supply chain for green ammonia to these key export markets. The project has the potential to achieve the scale necessary to be globally competitive.”

“The study is a critical step towards the supply of low-carbon energy solutions and forms part of the H2 Newcastle project to build infrastructure to support green industries and deliver a pathway for green hydrogen and ammonia production.”

Media Contact: Ray Balks, Group Manager Stakeholder Relations, 0407 859 403

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SNOWY HYDRO

About Us:

Snowy Hydro is a dynamic and growing integrated energy business that underpins energy security, enables the transition to renewables and increases competition in energy markets. Snowy Hydro keeps the lights on with more than 5,500MW of generating capacity across New South Wales, Victoria and South Australia.

Please attribute the following quotes to Paul Broad, Managing Director and CEO of Snowy Hydro:

“The hydrogen-ready Hunter Power Project will supplement Snowy’s generation portfolio with dispatchable capacity when the needs of electricity consumers are highest. Along with Snowy 2.0 and the mighty Snowy Scheme, the Hunter Power Project will underpin thousands of megawatts of renewables.”

“Snowy Hydro is proud to support the Federal Government, the Port of Newcastle and Macquarie’s Green Investment Group to drive the development of a green hydrogen economy, particularly in the Hunter region.”

“We expect hydrogen will play a role in the decarbonisation of Australia’s national energy mix in the decades to come, particularly once hydrogen is scaled and available on commercially attractive terms.”

Media Contact: James Hart, Government Relations Manager, 0408 604 172

JEMENA

About Us:

Jemena is an \$11.5 billion company that owns and manages some of Australia's most significant gas and electricity assets. These include:

- the Jemena Gas Network servicing 1.4 million customers around NSW
- the Eastern Gas Pipeline which delivers gas from Victoria's Gippsland basin to the ACT, Sydney and regional NSW
- the Queensland Gas Pipeline which supplies Gladstone and Rockhampton
- the Darling Downs Pipeline System which transports gas to the Wallumbilla gas trading hub, the 630MW Darling Downs Power Station, and to the feeder pipeline to the APLNG LNG liquefaction plant at Gladstone
- Jemena's Victorian electricity network which delivers electricity to over 360,000 homes and businesses in northern and western Melbourne
- the Northern Gas Pipeline from Tennant Creek in Northern Territory to Mount Isa in Queensland.

Jemena also part-owns the ActewAGL electricity and gas distribution networks in the ACT and United Energy, which supplies electricity to more than 600,000 customers across south-eastern Melbourne and the Mornington Peninsula.

Please attribute the following quotes to Frank Tudor, Managing Director, Jemena:

“Jemena is excited to be providing our energy infrastructure expertise to this study. This is a critical first step in a journey to bring green hydrogen to manufacturers and businesses in the Newcastle region, as well as helping accelerate the development of the hydrogen industry.”

“Projects like these help lay the foundations for a renewable gas network that takes advantage of Australia’s abundant renewable resources.”

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Media Contact: Nicola Thompson, Senior Media & External Affairs Advisor, 0407 630 597

KEOLIS DOWNER

About Us:

Keolis Downer is a leading operator and integrator of public transport in Australia. With close to 5,000 employees and a presence in five states, Keolis Downer enables 250 million passenger journeys per year. We operate and maintain the largest tram network in the world in Melbourne (Yarra Trams), the light rail network on the Gold Coast (G:link), Adelaide Metro train services and more than 1,200 buses in NSW, Western Australia, South Australia and Queensland.

Established in 2009, Keolis Downer is a joint venture between Keolis, a leading public transport operator established in 16 countries, and Downer, the leading provider of integrated services in Australia and New Zealand.

Please attribute the following quotes to CEO Keolis Downer, David Franks:

“Keolis Downer is delighted to partner with Port of Newcastle and Macquarie Capital to explore the potential to deploy green hydrogen powered public transport services in the Hunter.”

“This research will provide insights and a better understanding of the opportunity hydrogen brings as a fuel to power transport services in Newcastle and across Australia, with the development of a specific Mobility Feasibility Study.”

“As a leading public transport operator in Australia, our focus is to support public transport authorities in the decarbonisation of their fleets. Our role is to bring the knowledge we have from other operations around the country and across the globe to accelerate the energy transition and deliver more sustainable cities and regions in the future.”

“Keolis Group operates close to 50 hydrogen buses and 1,000 electric buses around the world, and we are excited to bring our experience to take part in this initial study, which will provide useful insights to potentially start trialling hydrogen buses and develop a hydrogen bus depot in Newcastle.”

Media Contact: Segolene Deeley, Director Future Mobility & Corporate Affairs, 0421 929 334

LAKE MACQUARIE CITY COUNCIL

About Us:

Lake Macquarie is one of the largest cities in NSW, with more than 208,000 residents and projected growth of a further 28,000 people in the next 15 years. This will create demand for 13,500 new homes and 12,000 new jobs. The city comprises 95 communities across its 757.2 square kilometres. It generates an estimated \$20 billion in economic activity annually, which makes up 19 per cent of the Hunter Region's economy. Lake Mac is also home to more than 13,000 businesses, and in the last financial year saw more than \$1.57 billion in development applications approved across the city.

Firmly focused on future prosperity, Lake Macquarie provides business support and progressive infrastructure that takes us to the limits of possibility.

Please attribute the following quotes to Lake Macquarie City Council Director Built and Natural Assets, David Hughes:

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“Lake Macquarie City Council is excited to partner with Port of Newcastle and the H2 team for this trial – we’re always open to exploring new technology and how it can benefit the community we serve, the environment and our organisation.”

“There’s great synergy between what the Port of Newcastle wants to investigate as a supplier, and our vision as a potential end-user of hydrogen. Our investigations have identified that using hydrogen as a power source in our heavy vehicle fleet could significantly mitigate our carbon emissions, while also supporting the establishment and growth of locally based advanced manufacturing and service organisations.”

“Our existing fleet of 18 garbage trucks consumes 420,000 litres of diesel a year, emitting more than 1.1 million kilos of CO2 annually.”

“This partnership with Port of Newcastle has great potential to deliver significant environmental and community benefits, including reducing our dependence on fossil fuel, reducing our environmental footprint and creating direct and indirect high-skilled jobs in Lake Mac and across the region.”

Media Contact: Neil Keene, Media Lead, Lake Macquarie City Council, 0414 911 605

UNIVERSITY OF NEWCASTLE

About Us:

A university of and for our regions, the University of Newcastle has delivered superior education and world-class research since 1965. By working with our industry, community and government partners, we translate new knowledge into innovations that make a real difference – to our communities, our economy and our planet.

We have more than 37,000 students from 112 nations studying with us each year and we’re committed to helping every one of them have an outstanding experience during this time. Our vibrant campuses across Newcastle City, Callaghan, Ourimbah, Sydney and Singapore provide spaces to learn, socialise and collaborate. Regardless of their course, every student is encouraged to take up the opportunity to work with industry as part of their study – we call it work-integrated learning. It means our graduates are ready for the jobs and innovations of the future.

Please attribute the following quotes to Vice-Chancellor of the University of Newcastle, Professor Alex Zelinsky AO:

“Today’s announcement sets our region up to be become a hub of hydrogen innovation and the University is excited to be a key partner on this important project.”

“Our University’s track record through NIER shows we know how to partner with industry to research and demonstrate new hydrogen technologies and their various potential applications in this region - we’ve got the innovation capabilities and the industry relationships to do this.”

“Our University is absolutely committed to working with partners to grow new industries for our region and we know today’s announcement will be an important milestone for the future of our region, NSW and Australia.”

Media Contact: Lou Morrissey, Deputy Director, Communications, 0419 168 940

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