

Important notice

Corporate Presentation

The information contained in this presentation is provided by Province Resources Limited ("**Province**") and its related bodies corporate (the "**Group**") for background informational purposes only. The information in this presentation is not investment advice, is not intended to be used as the basis for making an investment decision and does not constitute an offer to issue or arrange to issue, or the solicitation of an offer to issue, securities of Province. Province has made reasonable efforts to ensure that the information contained in this presentation is accurate as of the date hereof, however, there may be inadvertent or unintentional errors. No representation or warranty, express or implied, is made as to the fairness, accuracy, completeness or correctness of the information contained in this presentation. To the maximum extent permitted by law, none of Province nor its directors, officers, employees or agents, nor any other person, accepts any liability, including, without limitation, any liability arising out of fault or negligence, for any loss arising from the use of the information contained in this presentation.

Technical Information

This presentation includes disclosure of scientific and technical information. The information in this document is based on, and fairly represents information and supporting documentation reviewed by Mr David Frances, a Competent Person who is a Member of the Australian Institute of Geoscientists. Mr Frances is a Director of the Company. Mr Frances has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Frances has approved this document as a whole in the form and context in which it appears.

Forward-looking statements

Certain information contained in this presentation may contain "forward-looking statements". Forward-looking statements may include, but is not limited to, information with respect to the future financial and operating performance of Province, its subsidiaries and affiliates, the estimation of Mineral Reserves and Mineral Reserves and Mineral Reserves and Mineral Resource estimates, costs and timing of development of Province's projects, costs and timing of future exploration, timing and receipt of approvals, consents and permits under applicable legislation, results of future exploration and drilling and adequacy of financial resources. Forward-looking statements are often characterized by words such as "plan", "expect", "budget", "target", "project", "intend", "believe", "anticipate", "estimate" and other similar words or statements that certain events or conditions "may" or "will" occur.

Forward-looking statements are subject to known and unknown risks, uncertainties and other factors that may cause actual results to be materially different from those expressed or implied by such forward-looking statements, including: risks associated with investments in publicly listed companies; risks associated with general economic conditions; fluctuations in commodity prices; the inherent risks and dangers of mining exploration and operations in general; the possibility that required permits may not be obtained; environmental risks; uncertainty in the estimation of Mineral Resources and Mineral Reserves; general risks associated with the feasibility, development and production of each of Tiger's projects; the risk that further funding may be required, but unavailable, for the ongoing exploration, development and production of Tiger's projects; changes in laws or government regulations, policies or legislation; unforeseen expenses; fluctuation in the exchange rate of the Australian dollar; litigation risk; risks of being unable to sell production resulting from the development of a project; uninsured hazards; disruptions to Province's supplies or service providers; reliance on key personnel; retention of key employees; absence of dividends; and competition.

Forward-looking statements are based on the reasonable assumptions, estimates, analysis and opinions of management made in light of their experience and their perception of trends, current conditions and expected developments, as well as other factors that management believes to be relevant and reasonable in the circumstances at the date that such statements are made, but which may prove to be incorrect. Province believes that the assumptions and expectations reflected in such forward-looking statements are reasonable.

Readers are cautioned that the foregoing list is not exhaustive of all factors and assumptions which may have been considered by Province. Although Province has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking statements, there may be other factors that cause results not to be as anticipated, estimated or intended. There can be no assurance that such information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. Accordingly, the forward looking information contained in this release is expressly qualified in its entirety by this qualifying statement and readers should not place undue reliance on forward-looking statements. Province does not undertake to update any forward-looking statements, except in accordance with applicable securities laws.

The Gascoyne Project Western Australia

Salt and Potash

The Gascoyne Region is located in NW Western Australia with Carnarvon as it's administrative centre. The project area covers 1,408 km2 and is south of Carnarvon

Carnarvon's population of 5,300 adjoins the property with first class infrastructure in place including the Dampier Bunbury Natural Gas Pipeline (DBNGP) and the North West Coastal Highway

Carnarvon's central location within the broader salt producing region of the North West demonstrates the inherent potential of the project area

Initial exploration and evaluation will investigate the salt and potash, mineral sands and renewable hydrogen potential over the extensive tenement area

The region also boosts the world class Coburn mineral sands deposit with an Ore Reserve of 523Mt @ 1.1% Total Heavy Mineral (THM) and initial mine life of 22.5 years¹

Karratha **EXISTING** SALT OPERATIONS Exmouth Newman Gascoyne & HyEnergy Projects SOP **DEVELOPMEN** PROJECTS Carnarvon Western Geraldton () Australia Kalgoorlie O Perth Bunbury -

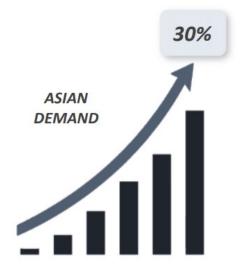
PROVINCE RESOURCES

¹ "Building a significant Mineral Sands Business, Company Overview, Strandline Resources, November 2020"

Why Salt and SOP?

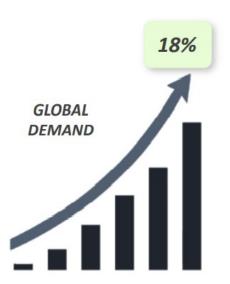
SALT

- >10,000 products derived from salt (PVC, alumina, glass, paper, water purification)
- Asian market size of ~160Mtpa salt (annual value of US\$6.5B)
- >50Mtpa additional demand over next decade¹ (growing population, requiring more industrial and consumer products)



SOP² (Sulphate of Potash)

- Premium fertiliser used on high value crops
- Global market size of ~7Mtpa (annual value of ~US\$3.5B)
- ~1Mtpa additional demand over next decade³ (growing population, changing dietary habits and declining arable land)



Western Australia's salt and potash advantage



- Gascoyne and Pilbara has ideal climate to produce high purity salt
- High temperature, high wind, low rainfall and low humidity



- Proven salt production region since the 1960's
- Five large WA Solar Salt Operations (12-13Mtpa), controlled by Rio Tinto and Mitsui





• No current SOP production in Australia, other development projects all based on inland lake brines with >800km road transport to third party ports



Carnarvon Basin Project will use an inexhaustible seawater resource to be concentrated through solar and wind evaporation to sustainably produce salt and potash ready to meet growing global demand

Attractive Financials - Mardie

BCI Minerals Mardie Salt and SOP Project¹

- DFS released July 2020 confirmed Mardie can become a globally significant Tier Isalt and sulphate of potash (SOP) project located equidistant between Onslow and Karratha on the Pilbara coast
- Attractive financial returns for more than 60 years, potentially making it one of the longest life projects developed in Australia for decades
- An inexhaustible seawater resource will be concentrated through solar and wind evaporation to sustainably produce 4.4 million tonnes per annum (Mtpa) of high purity sodium chloride (NaCl) salt and 120 thousand tonnes per annum (ktpa) of sulphate of potash (SOP or K2SO4) fertiliser for supply to the growing chemical and agricultural industries in Asia
- NPV of \$1,197M (pre-tax real), annual steady state EBITDA of \$197M, total revenue of \$22 billion and total net cash flow of \$10 billion over 60 years, with total capital cost of \$779M
- Expected attractive long-term salt and SOP prices based on strong demand growth in the Asian region
 - Thirteen non-binding salt offtake memoranda of understanding (MOUs) and two SOP non-binding offtake MOUs secured with credible Asian buyers, accounting for 100% of Mardie's three-year salt production and 75% of five-year SOP production
 - Benefits to Western Australia and Australia include; Corporate taxes: >\$6Bn, State royalties: >\$600M, Native title payments >\$150M

¹ Developing the Multi-Generational Mardie Salt & Potash Project, Corporate Presentation, BCI Minerals Limited, November 2020

² NPV of value add to Northern Australian GRP over 60 years, as per KPMG Public Benefit Report (October 2020)

Gascoyne Project HM

The region boosts the world class Coburn mineral sands deposit with an Ore Reserve of 523Mt @ 1.11% Total Heavy Mineral (THM) and initial mine life of 22.5 years¹

Regional aircore drilling nearby has confirmed the presence of commercially important heavy minerals in the northern Gascoyne coastal region²

Eimited historic work completed in the project area

Heavy minerals, such as zircon, titanium dioxide minerals, garnet, sillimanite, kyanite, and staurolite, are eroded from their parent igneous or metamorphic rocks and are transported by water and/or wind action over long periods of geological time, often ending up in the same locations as placer deposits. Most of the commercially attractive mineral sand deposits occur along old coastlines, particularly where high energy wave action and strong winds have prevailed over long periods of time

¹ "Building a significant Mineral Sands Business, Company Overview, Strandline Resources. November 2020"

² WAMEX A29292, Gascoyne Mineral Sands Project, Annual report to WA Department of Mines, September 1989



PROVINCE RESOURCES

Global Mineral Sands Market

Heavy Minerals (Zircon and Titanium)

- Zircon and high grade titanium feedstocks; producing products used in everyday life such as ceramic tiles, refractory, paint, titanium metal and welding rod applications
- Zircon is resistant to water, chemicals, heat and abrasion, ~1.1 million tonnes per annum global market
- TiO2 pigment imparts whiteness, is UV resistant and inert, ~7.0 million tpa global market
- Increasing demand driven by urbanisation, rising living standards, global growth and extensive array of applications
- 'Critical Minerals', vital to the economic well-being of the world's major and emerging economies
- Supply restricted by mine closures, declining grades and depleting stockpiles. China chloride pigment consumption increasing, driven by higher environmental standards and technology advancement
- Strong long-term market fundamentals -demand growth outpacing supply, new projects required to meet future demand
- Forecast structural supply gap, with demand for zircon increasing year on-year at 2.5-3.0% pa and existing production decreasing at average of 5% pa¹

Attractive Financials - Coburn

Strandline Resources Coburn Mineral Sands Project¹

- DFS released June 2020 confirmed the strong outlook for the Coburn mineral sands project. High margins and strong, long-term cash flows are the result of low operating costs and an exceptional, high-value zircon and titanium product suite
- Large Ore Reserve of 523Mt @ 1.11%Total Heavy Mineral (THM) underpins an initial mine life of 22.5 years at the planned mining rate of 23.4Mtpa of ore. First ore delivered to process facilities ~78 weeks after project development commences
- Pre-tax (real) NPV of A\$705 million and IRR% of 37%, with total capital expenditure estimated to be A\$260 million
- Experts forecast attractive long-term Zircon and Titanium prices based on strong demand growth in the Asian region
 - Binding offtake agreements have been secured with major global consumers for 66% of revenue for the first 5-7 years, with further offtakes pending
- The project is a long life, multi decade operation and will generate a host of socio-economic benefits including capital inflows to regional Australia, significant job creation, indigenous engagement, training and job diversity as well local business opportunities and community partnership programs

¹ "Building a significant Mineral Sands Business, Company Overview, Strandline Resources, November 2020"

Renewable "Green" Hydrogen Project HyEnergy – ZERO CARBON HYDROGEN™

International Energy Agency and the World Energy Council both identifying Australia as a potential hydrogen production powerhouse

PROVINCE RESOURCES

Navigating society towards a decarbonised future supported by Renewable Hydrogen

A New Global Industry in Western Australia



PROVINCE RESOURCES



The Opportunity

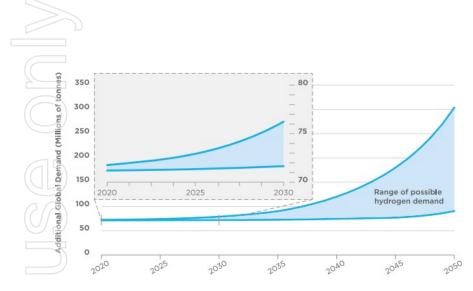


Figure 1. Range of possible hydrogen demand over the next three decades. Source, The International Energy Agency and International Renewable Energy Agency



Growing Demand
Australia's potential zero carbon green
hydrogen exports could reach \$2.2 billion by
2030 and \$5.7 billion by 2040¹



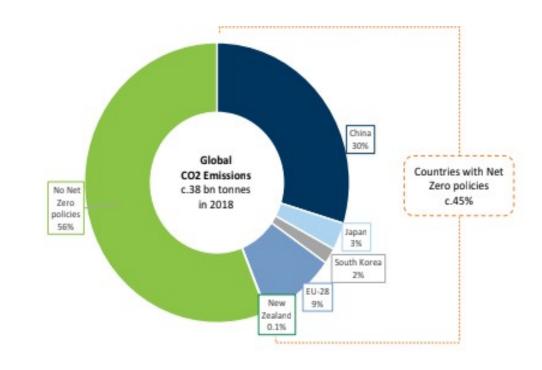
Global Decarbonisation
Western Australia to support international
decarbonisation efforts, while also supporting
Australia's commitments to the Paris Agreement.



Supportive Government
The COAG Energy Council has approved the development of a National Hydrogen Strategy.

Net Zero Policy is Going Global

- On the back of climate commitments in Europe and Asia, nearly half of the globe has already embraced net zero policies; further, early statements from the pending new US Administration appear encouraging.
- The globalization of net zero policies could imply a c.200% capex acceleration for global utilities (c.€40 trn of investment in renewables and power grids to 2050; €1.3 trn pa).
- Green Energy Ministerial 10–10–10 by 2030
- For climate experts, green hydrogen is indispensable to climate neutrality. It features in all eight of the European Commission's net zero emissions scenarios for 2050 ¹



Source: Emissions Database for Global Atmospheric Research, Goldman Sachs Global Investment Research.

PROVINCE RESOURCES

Vision Mission and Goals

Vision:

to be the first significant West Australian producer and exporter of 100% renewable green hydrogen and ammonia.

Mission:
contributing to global
decarbonisation and
decarbonising the State's
economy.

Goal:
Wester

Western Australia's market share in global hydrogen exports to be comparable to its share in LNG today.

Western Australia's hydrogen advantage







• Land, With an area of 2.5 million km2 (one-third of the Australian continent), low intensity land use combined with low population density, Western Australia is well placed to develop large-scale renewable energy generation.



• Existing infrastructure, Dampier Bunbury Natural Gas Pipeline world-class industrial and export infrastructure that can accommodate the development of the hydrogen industry.



• Strong existing industry presence, because of Western Australia's established LNG industry and its ability to develop collaborative and globally competitive supply chains.



• Access to markets, Western Australia geographical proximity to Asia and its long-term presence in these markets.

PROVINCE RESOURCES

Local, State and Federal Government accelerating greening economy

Western Australian Renewable Hydrogen Strategy \$10m

Australian Renewable Energy Agency (ARENA) \$70m

Australian Government Advancing Hydrogen Fund \$300m

Council of Australian Governments Energy Council,
 Australia's National Hydrogen Strategy

"Hydrogen provides a means to harness our world-class solar and wind resources for energy export, and help our international partners meet emissions reduction goals".

Hon Alannah MacTiernan MLC
Minister Assisting the Minister for
Development, Jobs & Trade

"Now, as the world moves to a lower carbon future, we have the ability to once again be a key player in value chains of new energy technologies, through our exports, expertise, technology and renewables potential. The Government is actively pursuing this vision, which will diversify our economy and create new, long term job opportunities for Western Australians."

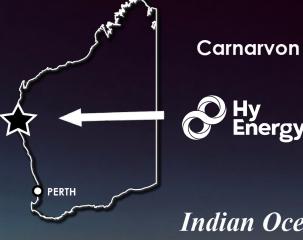
The Honourable Mark McGowan MLC Premier of Western Australia and Minister for State Development

\$5B Northern Australia Infrastructure Fund

- NAIF is a \$5 billion development financier that provides loans to infrastructure projects in the Northern Territory, Queensland and Western Australia, in the last financial year, NAIF has made 11Investment Decisions worth more than \$1.4 billion.
- NAIF's mission is to be an innovative financing partner in the growth of northern Australia. A key focus of any financing is to drive public benefit, economic and population growth and Indigenous involvement in northern Australia.
- NAIF can lend up to 100% of the debt and has a higher tolerance for the unique risks of investing in northern Australia including but not limited to, distance, remoteness and climate.
- NAIF has announced investment decisions for projects across a range of sectors and regions. They are;
- Mardie Salt & Potash Project (\$450m), Strandline Resources' Coburn Project (\$150m), Chichester Solar Gas Hybrid Project (\$90m), Onslow Marine Support Base (\$16.8m), Kalium Lakes' Beyondie SOP Project (\$74m (plus an additional \$10m facility), AAMC (\$12.5m), and Sheffield Resources' Thunderbird Mineral Sands Project (\$95m).



Why Carnarvon?



Dampier Bunbury Natural Gas Pipeline

Indian Ocean

- Sun very high irradiance
- Wind fourth windiest location in WA
- Water Birdrong artesian aquifer or sea water
- Infrastructure Dampier to Bunbury gas pipeline
- Landuse very flat, low intensity landuse
- Market good access to Asian market
- Regulatory strong local, state and federal support for green H2

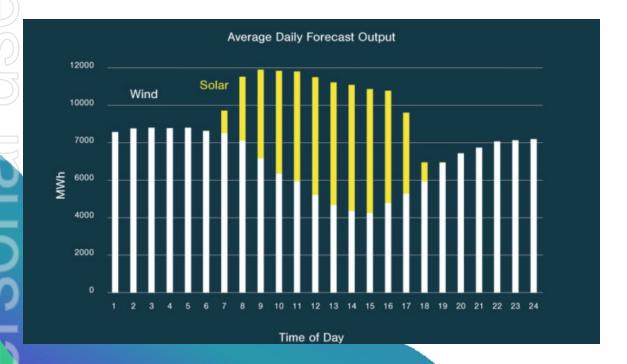
Shark Bay

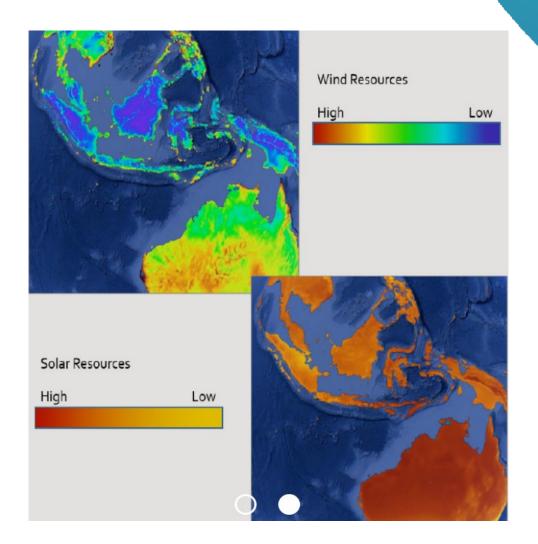
Monkey Mia

OVINCE RESOURCES

World Class Wind and Solar

- HyEnergy Carnarvon Basin project site in the Gascoyne region in Western Australia has world class solar and wind resources.
- Significantly, those resources are perfectly complementary, with high incidence of sun during the daytime and high wind speeds in the morning, evening and night. This enables competitively priced predictable and firm renewable electricity output, 365 days a year.





Wind Resource

- Carnarvon Annual Mean Windspeed of 25.5 km/h makes it top 4th windiest location in Western Australia.¹
- Existing windfarms at Denham and Coral Bay operating proof of concept in the Gascoyne region.
- With the Gascoyne's climate and wind pattern, renewable energy is an attractive and viable option. ²
- The Carnarvon region does not have the same record of prevalent cyclones as the Pilbara, where other large-scale wind warms are planned, this supports the Carnarvon region as a preferred lower risk wind farm location

PROVINCE RESOURCES

¹ Bonzle Digital Atlas of Australia

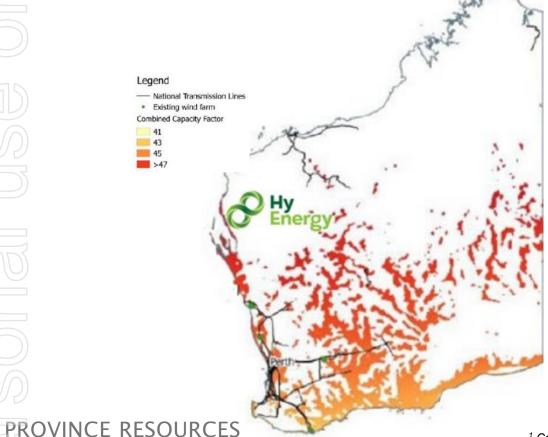
² Gascoyne Regional Development Plan – 2010-2020 (Feb 2010)

Solar

Carnarvon has a very rich solar resource averaging 211 sunny days per year, with an average solar exposure of 22 MJ/m2 /day (or 6.24 kWh/m2 /day) 1

Low competing land use and high solar resource makes project area ideal for a large-

scale solar array network



Heat map highlighting the best combined wind and solar resource locations (poor wind (<35% CF) and poor solar resource (<16% CF) locations removed) Source AECOM

¹ Carnarvon a case study of increasing levels of PV penetration in an isolated electricity supply system (Apr 2012)



Next 12 - 18 Months

- Execute a heritage agreement with the Yinggarda Aboriginal Corporation (YAC) to govern the conduct of site resource monitoring investigations
- Undertake numerous key stakeholder discussions, including, Carnarvon Shire and Community, WA government, Federal government and Indigenous representatives (YAC)
- Assembled a highly capable project team including local & international experts
- Commence feasibility studies for both renewable power generation and green hydrogen production
- Execute a binding MoU with an IPP (Independent Power Provider) to develop the renewable power required for the H2 plant
- Initiate discussions with potential offtakers and AGAIG Australian Gas and Infrastructure Group (owners of the DBNGP)

Stages

The HyEnergy RH2 Zero Carbon Renewable Green Hydrogen Project is proposed to be developed in stages:

- Stage 1 Foundations and Demonstration, advance priority pilot trial of green hydrogen and green ammonia production in Carnarvon region and investigate potential gas blending into the Dampier Bunbury Natural Gas Pipeline (DBNGP).
- Stage 2 Gas blending, scale up project to supply into the nearby Dampier Bunbury Natural Gas Pipeline. With the aim of helping meet the State Governments objective of up to 10% green hydrogen in the DBNGP by 2030.
- Stage 3 Export, full scale production to supply Asian markets. Develop a Liquified Hydrogen and or Ammonia Loading Facility in the Carnarvon area. Subject to customer needs hydrogen offtake could be either in the form of ammonia or liquified hydrogen.

A key element of Australia's approach will be to create hydrogen hubs – clusters of large–scale demand. These may be at ports, in cities, or in regional or remote areas, and will provide the industry with its springboard to scale. Hubs will make the development of infrastructure more cost–effective, promote efficiencies from economies of scale, foster innovation, and promote synergies from sector coupling. These will be complemented and enhanced by other early steps to use hydrogen in transport, industry and gas distribution networks, and integrate hydrogen technologies into our electricity systems in a way that enhances reliability ¹

Project Scope

- The HyEnergy Renewable Hydrogen Project is proposed to generate 1GW (1,000MW) of renewable energy in Western Australia using wind and solar and to produce approx. 60,000t of green hydrogen or up to approx. 300,000t of green ammonia
- The bulk of the energy will be used for large scale production of green hydrogen products for domestic and export markets, with potentially a smaller proportion of generation capacity (or scaled up) to be dedicated to large energy users in the Pilbara region, which could include downstream mineral processing.

Our Aim is to create a hydrogen hub at Carnarvon

We believe that the project will contribute significantly to the national, state and local objectives for new investment, new jobs, renewable energy sources and new export markets. We look forward to working with government, stakeholders and local communities to realise this exciting new project



ASX:PRL

Suite 8, 110Hay Street, SUBIACO WA 6008

David J Frances
Managing Director-CEO

0400 080 074

david@provinceresources.com

Contact Us

Appendix

"The potential to export clean hydrogen is substantial, with the International Energy Agency and the World Energy Council both identifying Australia as a potential hydrogen production powerhouse. We can become a leader in the new industry I call 'shipping sunshine', with our hydrogen exports being additional to our other energy exports."

Dr Alan Finkel AO Australia's Chief Scientist Chair, COAG Energy Council Hydrogen Working Group 22 November 2019

Accelerating Renewable Green Hydrogen



ARENA

Renewable Energy

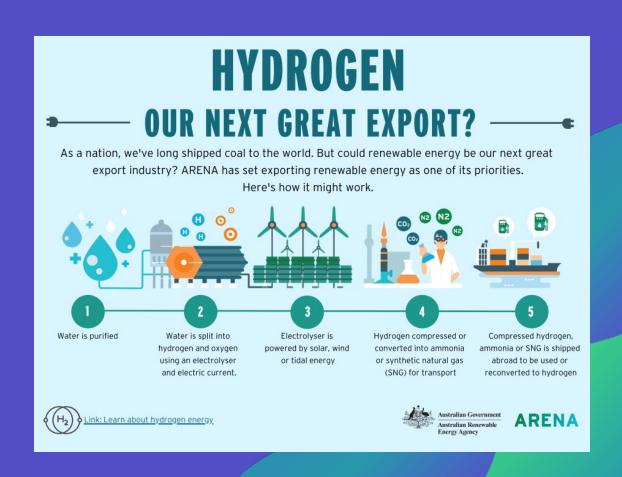
Funding

Projects

Knowledge & Innovation

What do we look for in hydrogen energy projects?

- · feasibility studies for projects involving 100+ MW electrolysers
- commercial-scale deployments involving 10-40+ MW electrolysers focused on industries and applications with large potential demand for hydrogen (e.g. ammonia production, power to gas, etc.) to drive the commercialisation of key component technologies
- demonstration-scale projects involving 1-10 MW electrolysers demonstrating new applications such as transport or remote area power systems with onsite hydrogen production and fuel cells/turbines replacing diesel generation, to drive the commercialisation for key component technologies
- projects or activities that support the implementation of the National Hydrogen Strategy
- projects that demonstrate or address issues with the use of hydrogen in industrial processes currently using fossil fuels (e.g. hydrogen as a fuel in boilers, kilns or other process heating applications, hydrogen as a reducing agent in steel manufacture).



WA Projects attracting funding

Renewable Hydrogen Fund

The WA Government's initial \$10 million Renewable Hydrogen Fund will drive a new job-creating industry harnessing the state's renewable resources.

1. Ord Hydrogen Feasibility Study

Feasibility study for hydrogen production facility near Kununurra utilising existing hydro generation.

Applicant: Pacific Hydro Australia Developments
Grant amount: \$370,000

2. Hyer Penetration

Feasibility study for the integration of renewable hydrogen production with isolated power stations.

Applicant: Energy Developments Limited Grant amount: \$370,000

3. Hybrid PV-Battery-Hydrogen

System for Microgrids

Feasibility study for 100% renewable energy standalone power system for an indigenous community in the Pilbara.

Applicant: Murdoch University
Grant amount: \$75,000

4. <u>Christmas Creek Renewable</u> Hydrogen Mobility Project

This project will develop and deploy onsite renewable hydrogen generation (via electrolysis) and refuelling infrastructure to support a fleet of fuel coaches at Fortescue's Christmas Creek mine.

Applicant: Fortescue Future Industries
Grant amount: \$2 million

5. <u>Denham Hydrogen Microgrid Demonstration Project</u> This pilot project will test and demonstrate the suitability of hydrogen generation in Horizon Power's systems, before executing a full renewable system. Applicant: Horizon Power Grant amount: \$1 million 6. <u>Preparing the Dampier to Bunbury</u>

6. Preparing the Dampier to Bunbury
Natural Gas Pipeline for Hydrogen
Feasibility study examining the compatibility of the
transmission pipeline with blended hydrogen.

Applicant: DBNGP (WA) Nominees
Grant amount: \$216,000

7. Clean Energy Innovation Park Feasibility study for a 10 MW electrolysis hydrogen production plant.

Applicant: ATCO Gas Australia Grant amount: \$375,000

8. Green Hydrogen for the City of Cockburn

Feasibility study for solar hydrogen production for waste collection and light vehicle fleets.

Applicant: City of Cockburn Grant amount: \$149,000

Hydrogen Refueller Station This project will deliver a hydrogen

refuelling station in Perth to integrate with the existing Clean Energy Innovation Hub.

Applicant: ATCO Gas Australia
Grant amount: \$1 million

10. Renewable Hydrogen Transport Hub in the City of Mandurah

Feasibility study for a hydrogen refuelling infrastructure hub and associated transport application.

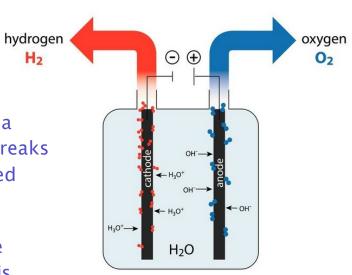
Applicant: Hazer Group Limited
Grant amount: \$250.000



Broome (

Water Electrolysis - how it works

- In a water electrolysis plant, electricity is passed through water, thereby initiating the splitting of the water molecules into their two components, hydrogen and oxygen.
- Oxygen accumulates at the plus pole, rises and escapes into the atmosphere. Hydrogen accumulates at the minus pole, from where it can be captured and stored.
- A hydrogen fuel cell is the main source of energy in a hydrogen fuel engine and works like a battery. There is a membrane situated in the middle of the cathode and anode. Hydrogen breaks down when it hits this membrane through a chemical reaction that makes negatively charged electrons and positively charged hydrogen ions
- An electric current is formed when the positively charged hydrogen ions travel through the membrane while the electrons go around. The hydrogen ions combine with oxygen, which is naturally available, to form water. The water is expelled from the fuel cell along with heat which are the only by products of the process. This is why the hydrogen fuel engine is believed to be eco-friendly.



How much Hydrogen is that?



1 kg of hydrogen is enough to travel up to 100 km in a Hyundai Nexo



Travelling in a **Hyundai Santa Fe**uses **7.5 L** of diesel
or **9.3 L** of petrol





Driving a **Hyundai Nexo** compared to a diesel **Hyundai Santa Fe** avoids **0.2 kg CO₂-e / km** driven or **20 kg CO₂-e per kilogram** of hydrogen used



1 kg of hydrogen in a fuel cell could power a 1,400 watt electric split-cycle air conditioner for 14.5 hours

Replacing Australian grid electricity with electricity from **hydrogen** avoids **0.75 kg CO₂-e / kWh**, or **15 kg CO₂-e per kilogram** of hydrogen used





1 tonne of hydrogen is equivalent to around
3.4 times the average annual consumption of an Australian house with gas heating



Replacing natural gas with hydrogen avoids 0.052 tonnes CO₂-e / GJ of natural gas or 6.2 tonnes CO₂-e per tonne of hydrogen



PROVINCE RESOURCES

Hydrogen fuel cell - how it works

