



Integrated Solutions for the Hydrogen Economy

Pure Hydrogen Corporation Limited

September 2024
(ASX: PH2)



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Geological Information

The geological information in this presentation relating to geological information and resources is based on information compiled by Mr Lan Nguyen, who is a Member of Petroleum Exploration Society of Australia and the Society of the Petroleum Engineers and has sufficient experience to qualify as a Competent Person. Mr Nguyen consents to the inclusion of the matters based on his information in the form and context in which they appear. The information related to the results of drilled petroleum wells has been sourced from the publicly available well completion reports. The Company has used a conversion factor of 1.05 to convert Bcf amounts to PJs equivalent.

Note 1 – As reported in Announcement dated 4 May 2021 – the 1C 87.7 Pj, 2C 130.3 Pj and 157,9 Pj – the remaining prospective resource was 536 Pj

The total of 1.1 TCF 3C AND 14.9 TCF Prospective is a combination of Windorah gas project 770 Bcf and 8.8 Tcf, Venus Gas Project 157.9Pj 3C and 536PJ Prospective and Serowe Gas Project 200.7 Bcf and 10.072 Bcf best estimate – Pure Hydrogen has a 30% working interest in the Serowe Project.

Note 2 – The Contingent resources is a summary of 2 reports for the Windorah Gas Project. One estimate prepared by DeGolyer and MacNaughton, a leading international petroleum industry consulting firm in June 2015 in respect of the Queenscliff Area and one estimate prepared by Aeon Petroleum Consultants in respect of the Tamarama area completed in August 2019. The Prospective estimate of 8.8 Tcf is based on the work by DeGolyer and MacNaughton adjusted for the permit that was relinquished by the Company.

Note 3 – As reported in the Announcement on the 12 April 2022 – the Serowe Project has contingent Resources of 1C 237.5, 2C 316.7 and 3C of 395.9 Bcf and best estimated of 10.07 Bcf – all figures 100%.

**Building an integrated hydrogen business
which manufactures and distributes zero emission vehicles
and hydrogen equipment**



**HYDROGEN FUEL CELL
TECHNOLOGY**

**Equity interests in HFC
vehicle companies,
HDrive and H2X**

Technology and IP for
numerous designs of
vehicles

Full suite of heavy vehicles
including Taurus Prime
Mover; 3 waste trucks and
4 buses

Ground up design
– no retrofitting FCE
technology into legacy
equipment

Partnerships with high-
profile vehicle parts
manufacturers



**HYDROGEN
EQUIPMENT**

**Sale of
hydrogen
equipment**

Signed an MOU to sell
equipment into Vietnam

Agreements in place to
resell hydrogen equipment

First approved hydrogen
fuel cell generator in QLD

Mobile refuelling options

Quick deployment of
equipment as built into
shipping containers



**H2 PRODUCTION
AND DISTRIBUTION**

**Becoming a
hydrogen utility
for production/
supply companies**

Developing modular Green
Hydrogen production plants
located within reach to
customers

Emerald and Turquoise
Hydrogen production
plants featuring partner
technology

Due diligence and approval
processes are currently
underway

COMPELLING INVESTMENT PROPOSITION



ESTABLISHED TECHNOLOGY BASE

Zero Emission Fleet with numerous vehicle options, including buses, waste trucks and prime movers



FIRM ORDERS AND GROWING PIPELINE

Potential for larger scale orders
Clients include PepsiCo, JJ Richards and Solo



GROWING INTERNATIONAL EXPOSURE

Planning has advanced for entry into the US and European markets



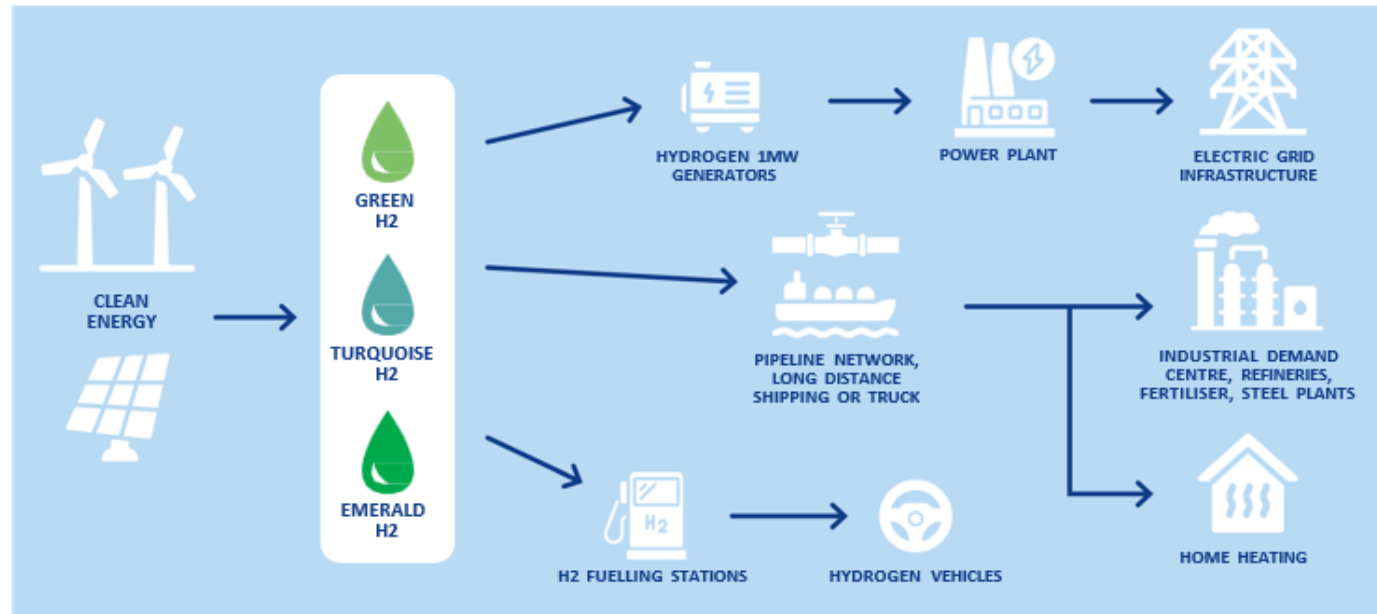
ESTABLISHED MANUFACTURING CAPACITY

200 hydrogen fuel-cell or battery electric vehicles per month



GOVERNMENT STIMULUS PROGRAMS

Governments around the world are spending big on hydrogen
In Australia the Federal Govt has incentives of \$22.7bn over the next 10 years



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**FY24
HIGHLIGHTS &
ACHIEVEMENTS**

**Sales Pipeline Momentum
Building in Australia**

Taurus Prime Mover
PepsiCo and Barwon Water

Waste collection trucks
JJ's Waste & Recycling, Solo Resource
Recovery, City of Newcastle

Buses
Transport NSW and Sapphire Coast Buslines

**Growing International
Market Opportunity**

Nutcher Hydrogen (CA, USA)
Riverview International Trucks (CA, USA)
Vietnam ASEAN Hydrogen Club
ARMS Group (UAE)
Brazil's Piauí state



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First Hydrogen Hub in Development at Archerfield Airport

- 5-year lease signed in April 2024 on a strategic industrial site located at Archerfield Airport (QLD)
- Pure intends to manufacture green hydrogen fuel at Archerfield to service commercial transport operators and the aviation industry
- State-of-the-art electrolyser is already on order, which will use net-zero electricity to produce green hydrogen
- Staged development strategy, with Stage 1 based on utilisation of 1,000m² with an anticipated output of 420kg of green hydrogen fuel per day
- Archerfield site is part of PH2's strategy to develop multiple 'CAPEX light' green hydrogen micro-hubs



HYDROGEN EQUIPMENT

Pure Hydrogen can sell or rent Electrolysers, Refuellers and Generators

All of the hydrogen equipment and power chargers are plug in play.

Pure Hydrogen is standardising equipment so that it can be delivered using shipping containers.

Pure Hydrogen have already signed an MOU with Vietnam ASEAN Hydrogen Club for the sale of an electrolyser and refuelling equipment.

ELECTROLYSERS

State-of-the-art electrolyser is already on order, which will use net-zero electricity to produce green hydrogen

GENERATORS

Ideally suited to replace standard diesel generators and to switch to emission-free hydrogen fuel cell solutions

REFUELLING

Developing refuelling stations and pods for hydrogen powered vehicles

PODS

Portable storage containers that hold 88kg of hydrogen (equivalent to 800L of diesel)



CUSTOMERS & PIPELINE

KEY CLIENTS	DESCRIPTION	FLEET SIZE	INITIAL ORDER	STATUS	POTENTIAL FOLLOW ON
	Trialling HCF prime mover at manufacturing site in Brisbane	>15,000	1 prime mover	Trial commenced	10 trucks
	Delivered 2 BEV mini-buses	200	2 mini-buses	2 delivered	16 buses
	Developing HCF Side-Left RCV truck and supplying Emerald hydrogen	2,000	1 refuse truck	Under assessment ¹	25 trucks
	Sales agreement to supply a HCF powered waste collection truck	700	3 refuse trucks	2 assembled, 1 in build ²	83 trucks
	Supplying HFCEVs in California	Distributor	1 prime mover, 1 refuse truck	In build ²	50 trucks
	Lease agreement for a HFC waste collection vehicle, including a 12-month trial	30	1 refuse truck	In build ²	30 trucks
	Sold a Taurus HFC Prime Mover	N/A	1 prime mover	In build ²	10 trucks
	MOU to negotiate the distribution and supply of HFC EV and BEV into California	Distributor	-	Awaiting certification ³	100 trucks
	MOU for the supply of 5 buses in Ho Chi Minh City	N/A	3 mini-buses, 2 coaches, 1 electrolyser, 1 refueller	In build ²	10 buses
	MOU for the supply of battery electric and HFC electric commercial vehicles	Distributor	-	Awaiting certification ³	100 trucks

1. Under assessment by Australian National Heavy Vehicle regulator

2. In build: the process of commencing building a vehicle

3. Awaiting certification on a particular component of the vehicle in compliance with regulation

INDUSTRY TRENDS

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Global Hydrogen Vehicle Market Drivers

The global hydrogen vehicle market is set to grow at a staggering **43% CAGR** between 2022 and 2032, reaching a total market size of \$58 billion by 2032.

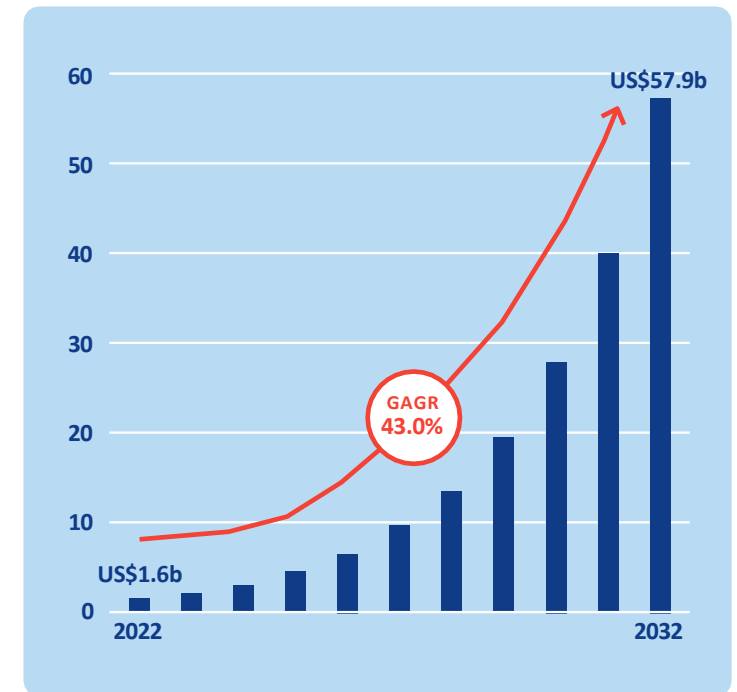
The movement away from fossil fuels at a global level will **drive growth in the use of hydrogen for fuel** in vehicles.

To limit global warming in accordance with the Paris Climate Change Agreement, **15% of global energy use by 2050 is forecast to be from hydrogen²**. This will drive growth in the hydrogen vehicle space.

Government regulations and subsidies are **encouraging the development of hydrogen fuel cell technology** and the surrounding infrastructure.

California has committed funds for the development of 100 hydrogen refueling stations to meet its **target of 1.5 million zero-emission vehicles by 2025³**.

Global Hydrogen Vehicle Market Size (\$bn)¹



¹ Allied Market Research, Hydrogen Fuel Cell Vehicle Market Size.

² DNV – Hydrogen Forecast to 2050, 2022. ³ California Energy Commission

**HDRIVE
INTERNATIONAL
70% OWNED¹**

The World's Leading Hydrogen Vehicle Company

HDrive International is a global provider of hydrogen and electric vehicles for commercial transport, such as buses, trucks, prime movers and more. It offers a range of zero-emissions options and aims to decarbonise the transport industry.

Markets in which HDrive has existing export discussions and orders:

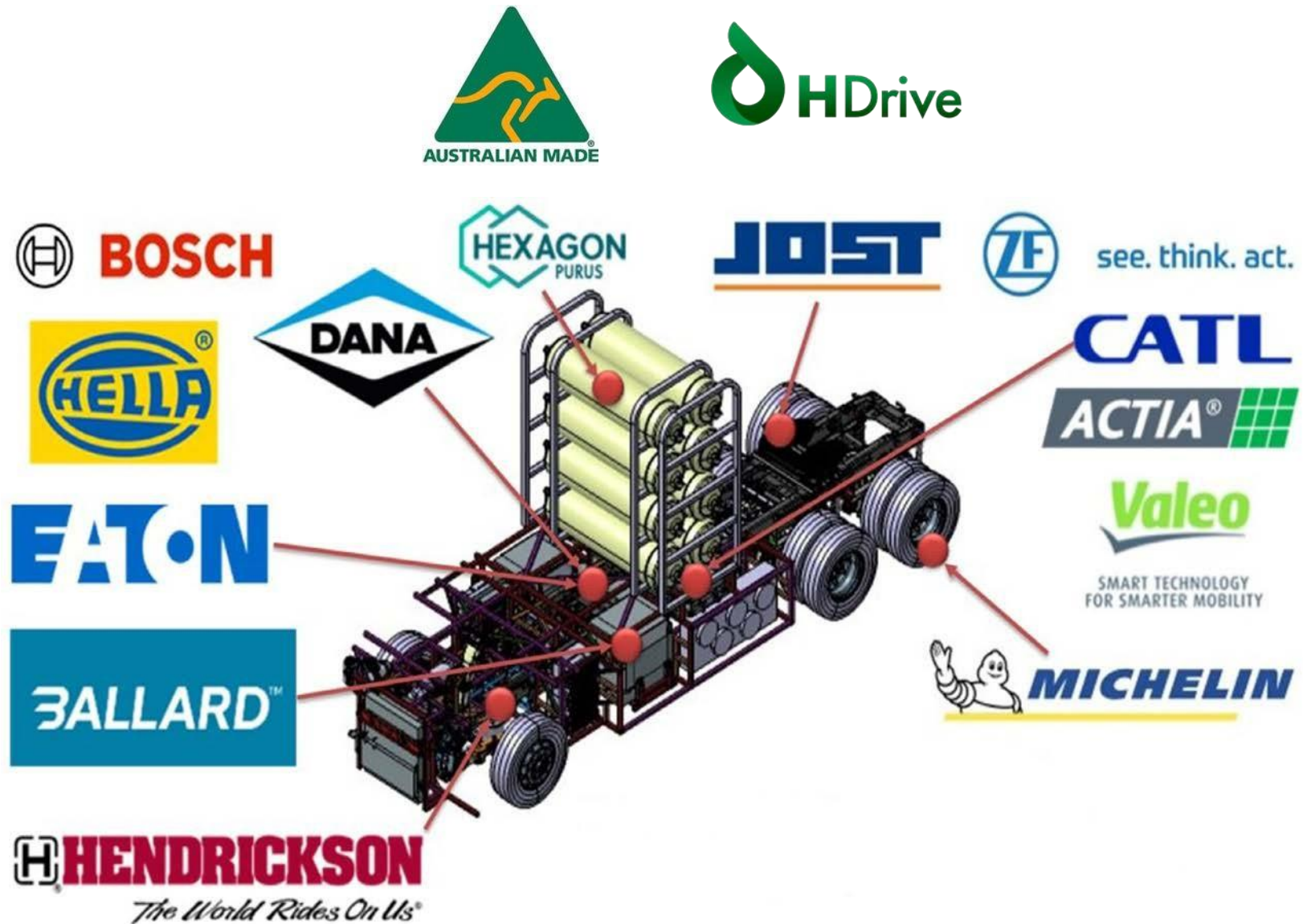
- Australia
- USA
- Saudi Arabia
- Brazil
- Europe
- UK
- UAE
- New Zealand

¹ Pure Hydrogen's ownership of HDrive is currently 70% but is likely to change depending on a number of factors

HIGH QUALITY
COMPONENTS

HDrive supports the leading global component
suppliers, with growing support of Australian
product development and assembly

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Refuse Truck

ENERGY TYPE:
H2 Fuel-Cell Electric

AXLE CONFIGURATION:
6×4

RANGE:
≥250km

TOP SPEED:
100km/h



Low Floor City Bus Range

ENERGY TYPE:
H2 Fuel-Cell Electric
or Battery Electric

PASSENGER CAPACITY:
13 to 80 Passengers

RANGE:
≥500km

HYDROGEN FUEL CELL:
60 to 200kW, Ballard

TOP SPEED:
100km/h



15 - 70T Heavy Truck

ENERGY TYPE:
H2 Fuel-Cell Electric

TRACTION BATTERY:
73.57 kWh, CATL

RANGE:
≥400km

HYDROGEN FUEL CELL:
160 to 400kW, Ballard

TOP SPEED:
100km/h

HDRIVE MANUFACTURING AND EXPORT

HDrive is currently working towards vehicle assembly within Australia for local and international deployments

HDrive's long term goal is to assemble vehicles for export and for the local market

HDrive will employ local staff within the first year of production. HDrive will support local manufacturers and suppliers for up to 15% of materials and finished products

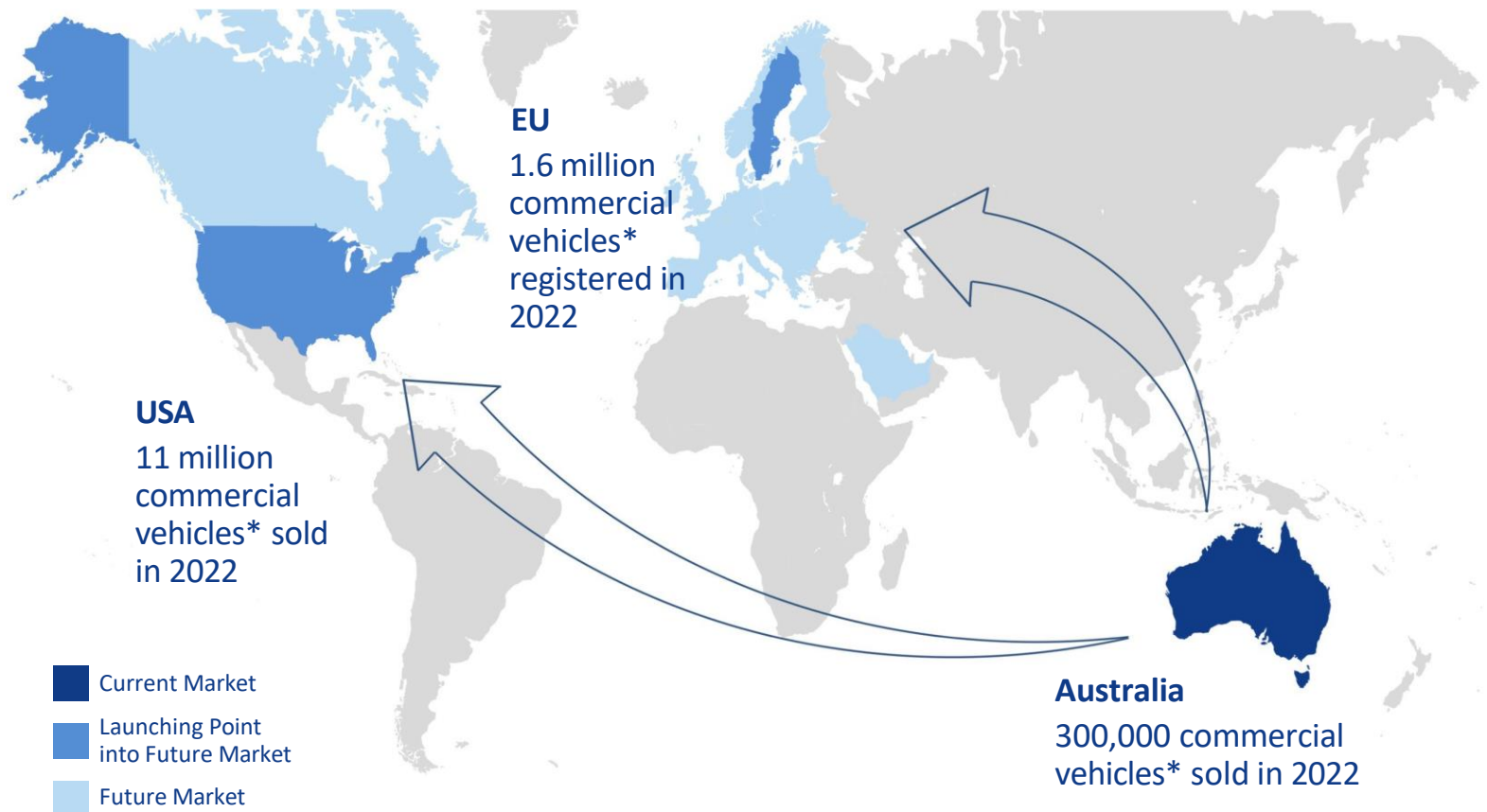


CURRENT GROWTH STRATEGY

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US market entry presents massive opportunity

- Geographic expansion
- Product deployment
 - Rigid trucks (including refuse)
 - Prime movers
 - Buses / coaches
- Micro-factories (assembly)



* Commercial vehicles category includes trucks, buses and vans

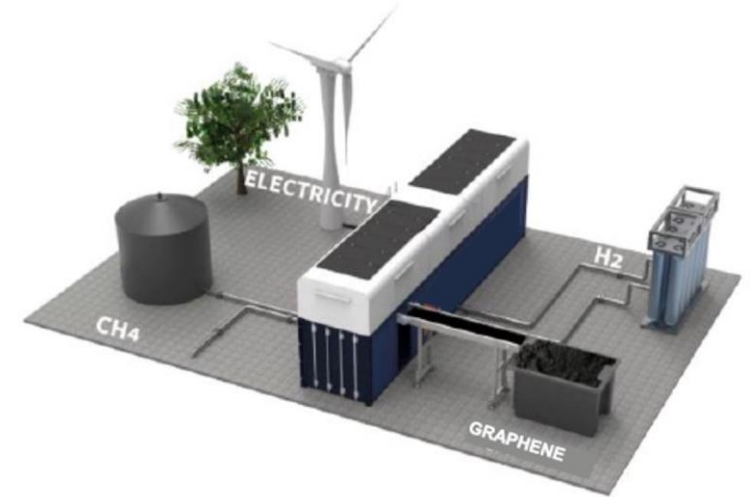
**TURQUOISE
GROUP:
40% OWNED**

Profitable green business model

Two valuable products manufactured with no direct emissions

Turquoise Group's technology is modular, allowing multiple modules to be installed to meet customer requirements.

- Each module has a production capacity of 50tpa Hydrogen and 150tpa of Graphene
- Modules are sized to a standard 40ft shipping container. When powered with renewable electricity, there are low scope 2 emissions
- If biomethane is utilised as a feedstock, the process can become carbon negative



Graphene, the wonder material

Turquoise Demonstration plant has been commissioned refined to target continuous high quality graphene production. Methane pyrolysis: Consolidating the world-first and patented 3-phase plasma torch, the 'engine' of the system.

The technology solution is highly energy efficient, is a water-free process without direct CO or CO2 emissions.

Creates graphene powder (C) and hydrogen gas (H2).

Key value driver is the continuous production of bulk volumes of high-quality graphene powder.

COMPANY PROFILE

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BOARD OF DIRECTORS



Scott Brown - Managing Director

Scott has over 30 years' experience as a director and an executive in ASX-listed companies, including Real Energy, Objective Corporation, Allegiance Mining and Mosaic Oil.



Adam Giles - Non-Executive Director

Adam Giles was the 10th Chief Minister of the Northern Territory and held office from 2013 thru 2016. Since leaving politics, Adam has held several senior corporate roles, including a long-term engagement with Hancock Prospecting.



Lan Nguyen - Non-Executive Director

Lan has over 25 years' experience in petroleum exploration, development and production in Australia and internationally, and was the Managing Director at ASX-listed Mosaic Oil.



Ron Prefontaine - Non-Executive Director

Ron has over 40 years' experience in the oil and gas industry and was the Executive and Managing Director at two successful ASX-listed companies, Arrow Energy and Bow Energy.

MANAGEMENT TEAM



Les Nelson - GM Commercial

Les has over 30 years' experience working in industrial and retail markets, including 20 years at Australia's largest Liquefied Petroleum Gas distributor, Elgas Ltd, as General Manager.



Gareth Forde - Hydrogen Technology

Gareth has over 20 years' experience in hydrogen, oil and gas, water, energy and process engineering. He is a Registered Professional Engineer of Queensland in both Chemical and Environmental Engineering.



Clint Butler - Sales Manager

Clint has 15 years' experience and has worked with numerous multi-nationals in the Liquefied Petroleum Gas industry and was the Executive Director for an energy monitoring company for 11 years.



Ben Kiddle - CEO HDrive International

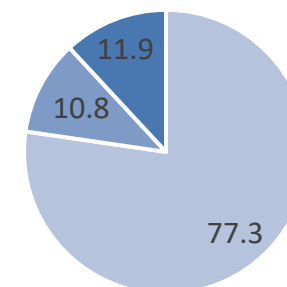
Ben has significant experience across ZE heavy and light commercial fleet. He held senior management roles across adjacent sectors including a key role in the business of Custom Denning, across business development and aftersales support.

CORPORATE INFORMATION

Stock Symbol	PH2
Shares on Issue	363m ¹
Share Price	\$0.14 ¹
Options on Issue	8.650m ¹
Market Capitalisation	\$50.88m ¹
Cash Position 30 June 2024	\$6m

1. As at 23 September 2024

TOP SHAREHOLDERS



■ Retail & HNW ■ Directors ■ Funds & Others

**PORTFOLIO
UPDATE:
GAS
RESOURCES**

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**TOTAL 2C GAS RESOURCES 453 BCF
IN QUEENSLAND**

Looking to gain value for the current 100% owned gas assets

In April 2024, Pure Hydrogen sold its strategic 30% interest in the Serowe CBM project in Botswana to the project's operator and 70% owner, Botala Energy Ltd (ASX: BTE). Transaction - 14.5 million shares plus a milestone payment of \$750,000¹.

Pure is expected to have around 20% equity interest in BTE when deal closes.

1. See ASX announcement dated 4 April 2024

Independently Certified Contingent Gas Resources, net to Pure Hydrogen:

**100% PROJECT VENUS
SURAT BASIN CSG, QUEENSLAND**



123 Bcf 2C, and 560 PJ in Prospective Resources in the Walloon CSG¹

**100% WINDORAH GAS PROJECT
- COOPER BASIN GAS**



330 Bcf 2C and 8.8 TCF Prospective Resources - basin centered gas²



Pure Hydrogen

Pure Hydrogen's aim is to be the lowest cost hydrogen producer and supplier of hydrogen devices and equipment.

Contact

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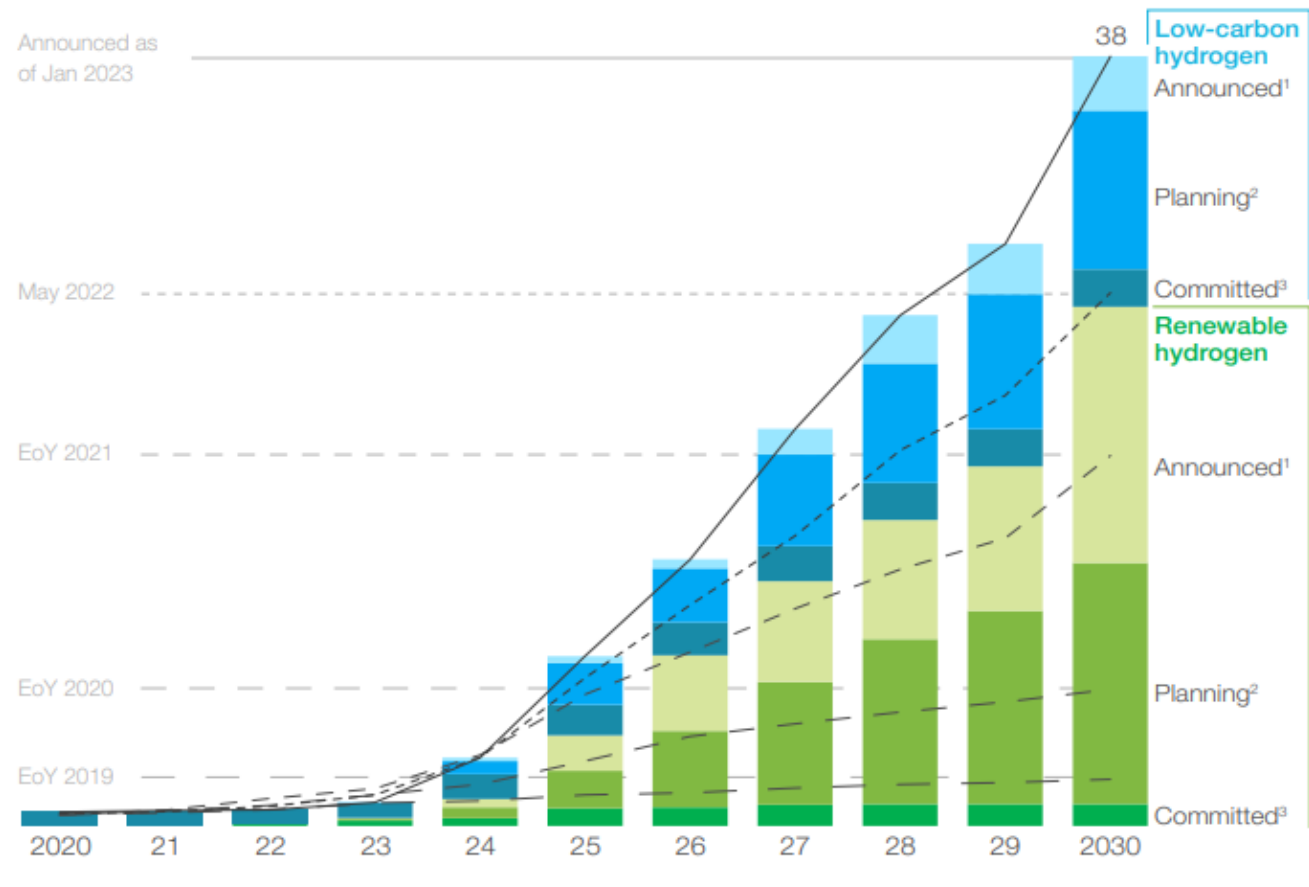


INDUSTRY TRENDS

Hydrogen Production Capacity Worldwide

While Australia is a world leader, investments in hydrogen production capacity are gaining similar momentum lead by Europe and North America. As a result, globally the Hydrogen Council expects that cumulative hydrogen production capacity announced could grow to 45mt by 2030.

Cumulative production capacity announced, Mt p.a.



Source: Hydrogen Council

BUSINESS CASE

Barwon Water Taurus Prime Mover

Order placed July 2024 for the supply of HFC Prime Mover

Barwon Water provides water services to ~320,000 residents across over 8100km² in southwest VIC

Net-zero emissions by 2030

Pure expects to generate gross revenues of approximately \$1,400,000, comprising the initial sale together with ongoing service, maintenance and spare parts for an expected term of 8 years



Sapphire Coast Buslines Mini-Buses

Order placed September 2023 for the supply of 2 mini-buses / delivered in April 2024

Serves the Bega Valley with charter and coach bus tours, as well as school and public transport

The NSW Government seeking to both improve their green credentials and lower their operating costs

Deal valued at over ~\$750,000 including charging infrastructure

BUSINESS CASE

PepsiCo Taurus Prime Mover

- Several multi-national corporations have committed to achieving net-zero carbon emissions by 2050, based on the Paris Agreement.
- PepsiCo has tasked itself with reducing absolute emissions across all its direct operations by 75% and by 40% for indirect operations by 2030 via:
 - Scaling sustainable agriculture practices
 - Reducing virgin material use and increasing recycled materials
 - Developing sustainable manufacturing and warehousing
 - Shifting to renewable fuels globally
- Pure Hydrogen has secured a partnership with PepsiCo to develop and supply its fleet with hydrogen-powered prime mover trucks. The 'Taurus' FCEV Prime Mover has been custom designed for PepsiCo's Brisbane-metro operations.
- PepsiCo's fleet in Australia will benefit from access to green hydrogen, produced by Pure Hydrogen, currently developing modular Green Hydrogen production plants located within reach to customers.
- PepsiCo is the largest fleet owner in North America, with 25,000 trucks, providing an immense opportunity for Pure Hydrogen to expand internationally.
- The trial commenced on 20 September 2024 and will run for approximately six months. Following the trial, PepsiCo will assess the commercial use-case with the potential to order further hydrogen powered vehicles.

