



Integrated Solutions for the Hydrogen Economy

121 Conference London

Pure Hydrogen
Corporation Limited
May 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.

Notes 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 relished 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/distributes hydrogen and fuel cell vehicles, and generators



**HYDROGEN FUEL CELL
TECHNOLOGY**

Equity interests in hydrogen fuel cell vehicle companies HDrive (majority owned) and H2X

- ✓ Global distribution rights for HDrive vehicles across Australia, US, Europe, Malaysia and India
- ✓ Delivering at least 10 vehicles in 2024 including a Taurus Prime Mover; three waste trucks and four buses
- ✓ \$125 million funding facility partner identified, allowing Pure Hydrogen to lease vehicles and supply hydrogen on long term contracts



**H2 PRODUCTION
AND DISTRIBUTION**

Becoming a hydrogen utility for production/ supply companies

- ✓ Developing Green Hydrogen production plants in modular form located close to customers
- ✓ Emerald and Turquoise Hydrogen production plants featuring partner technology
- ✓ Due diligence and approval processes are currently underway

HYDROGEN ECO SYSTEM

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Hydrogen
Production/
Supply

- Green
- Turquoise
- Emerald

Hydrogen
storage,
transport
and refuelling

Hydrogen fuel
cell devices

- Trucks
- Buses
- Generators



BUSINESS MODEL

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BUSINESS MODEL

- ▶ FCEV and BEV vehicles
Ground-up design
- ▶ Other Hydrogen Devices
- ▶ Services and
Maintenance and parts
- ▶ H₂ supply, production
and distribution

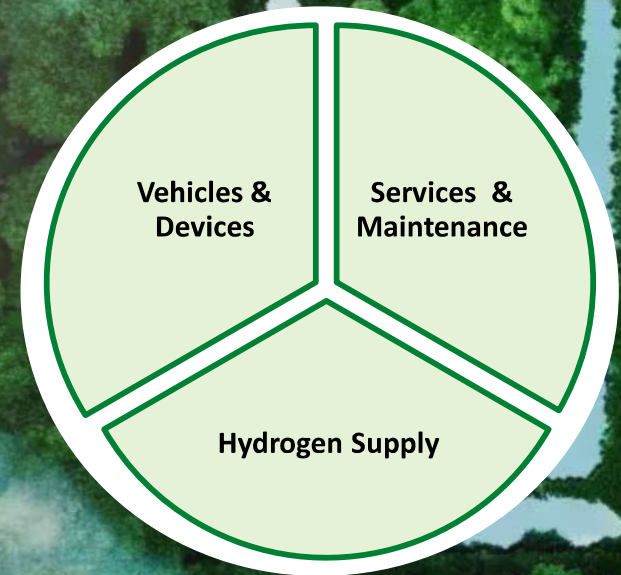
MARKET STATS



23%
of Total Road Transport
Emissions Attributable
to Trucks



43%
Global 2022-2032
Hydrogen Vehicle
Market CAGR



HDRIVE VEHICLE SUITE: TRUCKS AND BUSES

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Refuse Truck

ENERGY TYPE:
H2 Fuel-Cell Electric

AXLE CONFIGURATION:
6x4

RANGE:
≥250km

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



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

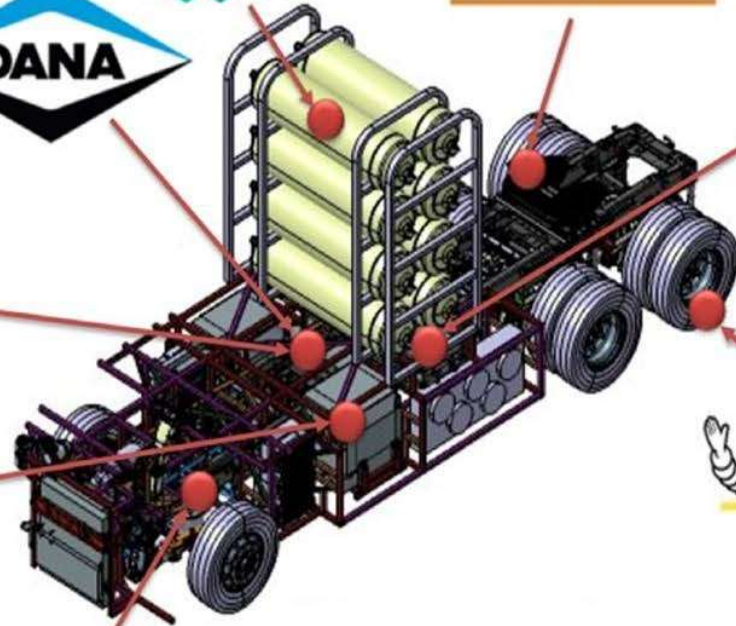
TOP SPEED:
100km/h

HIGH
QUALITY
COMPONENTS

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



see. think. act.



Pure Hydrogen

CUSTOMERS & PIPELINE

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KEY CLIENTS



FLEET SIZE

>15,000

INITIAL ORDER

1 prime mover

STATUS

Under assessment¹

POTENTIAL FOLLOW ON

10 trucks



200

2 midi-buses

2 delivered

16 buses



2,000

1 refuse truck

Under assessment¹

25 trucks

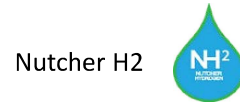


700

3 refuse trucks

2 assembled, 1 under way

83 trucks



Distributor

1 prime mover
1 refuse truck

In build

50 trucks

¹Under assessment by Australian National Heavy Vehicle regulator. ²subject to conditions precedent.

PIPELINE

As at May 2024

3 six-month trial commitments **10** firm vehicle orders for delivery in next 12 months

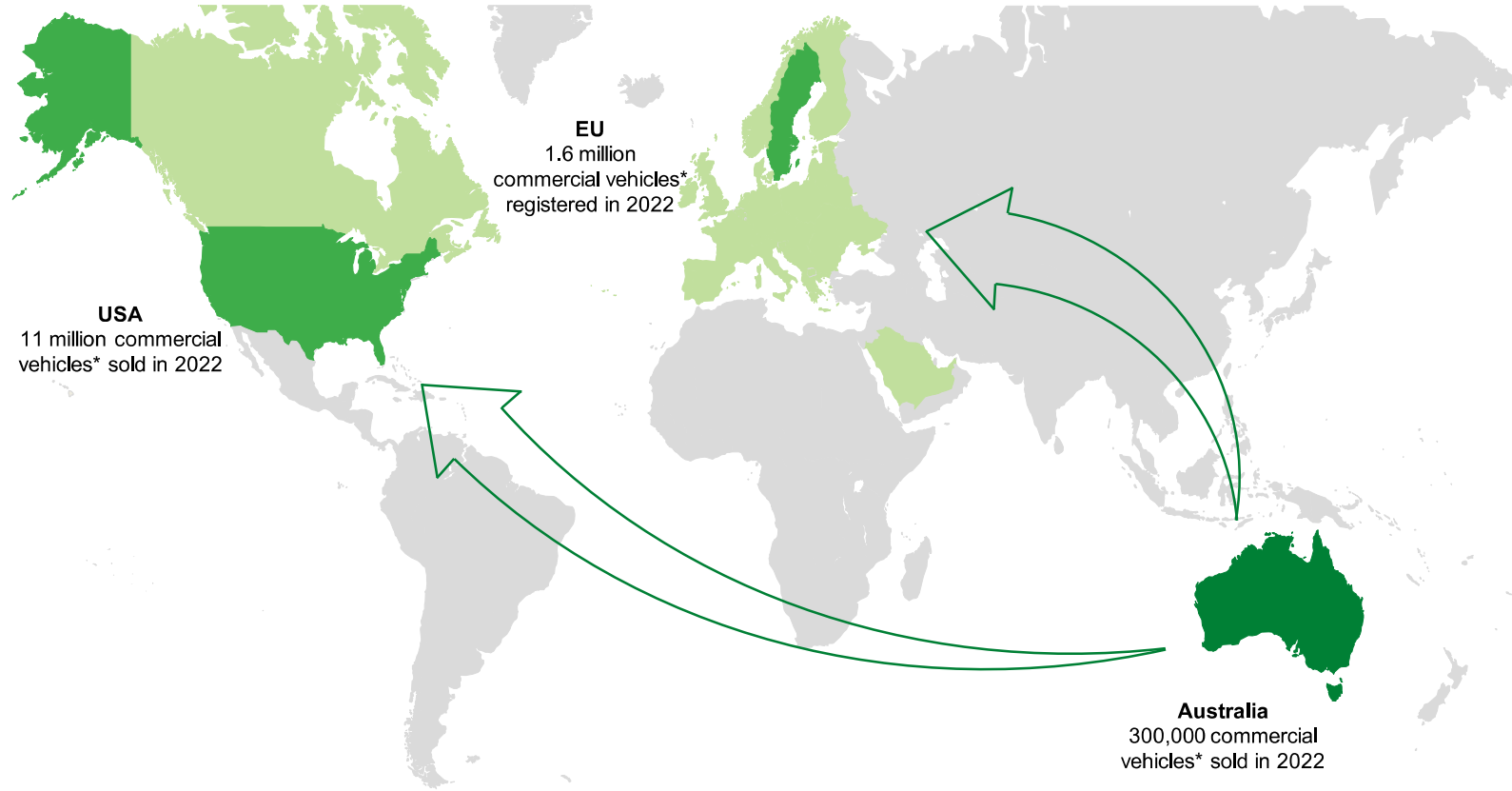
\$125m leasing facility² **>100** vehicles options¹

1.subject to successful trials. 2 subject to conditions precedent. Image: render of the Solo general waste collection



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)

- Current Market
- Launching Point into Future Market
- Future Market

CURRENT
CAPACITY

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HDrive assembly capability of up to 200 vehicles per month



 Pure Hydrogen

GREEN ENERGY MICRO-HUB

GREEN ENERGY MICRO- HUB

- 5-year lease signed on a strategic industrial site located at Archerfield Airport, Queensland.
- Pure intends to manufacture green hydrogen fuel at Archerfield to service commercial transport operators and the aviation industry.
- First Green Hydrogen supply anticipated Q4 CY2024 subject to approvals.
- 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 part of PH2's strategy to develop multiple 'CAPEX light' green hydrogen micro-hubs.



TURQUOISE GROUP

-40% OWNED BY PURE



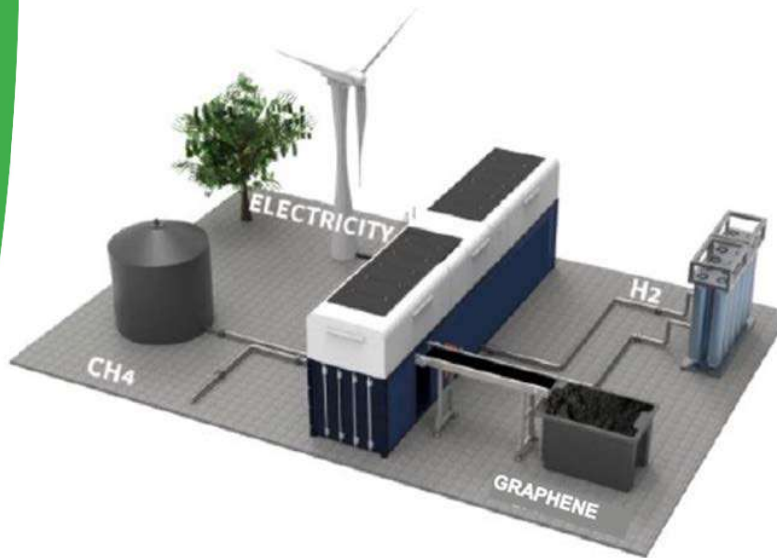
Turquoise Demonstration plant has been commissioned refined to target continuous high quality graphene production. Methane pyrolysis: Consolidating the world-first and patented 3-phase plasma torch, the 'engine' of the system.

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

The process splits methane gas (CH4) into solid graphene powder (C) and hydrogen gas (H2) components.

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

Graphene, the wonder material



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.

PURE HYDROGEN:

INTEGRATED SOLUTIONS FOR A HYDROGEN ECONOMY

Australia's most diverse portfolio of hydrogen projects, from production through to end-use fuel cell products, such as prime movers, generators and waste trucks

- Trials of the Taurus Prime Mover and Garbage Trucks
- Confirmation of potential orders of Hdrive Trucks and Buses
- Commercial Demonstration plant for Turquoise Group in Brisbane
- First Green Hydrogen Micro Plant in Queensland
- Progress emerald and turquoise hydrogen efforts, alongside partners



PORTFOLIO UPDATE: GAS RESOURCES

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 greater than 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

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APPENDICES

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 Pure Hydrogen

EXPERIENCED BOARD AND LEADERSHIP TEAM

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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.



The Hon. Adam Giles
Non-Executive Director

The Hon. 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.

Leadership team



Les Nelson
GM Operations

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 Liquid 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 zero-emission 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.

Other Corporate Information

Cash Position
31 Mar 2023:
\$7.988m

Shares on issue:
358m

Market Capitalisation:
\$m

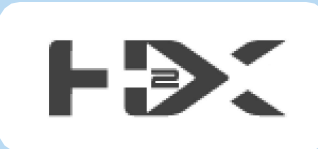
(based on the closing share price of \$0.105 on 13 May2024)

A FOUNDATION OF STRATEGIC INVESTMENTS, JOINT VENTURES AND PARTNERSHIPS

Partnering with Hydrogen truck, buses and hydrogen fuel cell devices manufacturers



Hdrive
– Trucks and busses
(PH2: 60%)



H2X
– Fuel cell Utes and Vans
(PH2: 17%)



Hydrogen Fuel Cells Generators



AusShips
– Marine Vessels



Advik Hi-Tech
– India JV



Ballard
– Hydrogen fuel cells

Underpinned by market-leading Hydrogen manufacturing technology providers



Omni Emerald Hydrogen
(PH2 100%)



Turquoise Group
– Turquoise Hydrogen
(PH2: 40%)



Auyun
– Green Hydrogen



CIMC ENRIC
– Green Hydrogen

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VEHICLE FLEET: H2 FUEL CELL TRUCK TRIAL

PepsiCo has committed to running a trial program with Pure Hydrogen to build and deliver the first hydrogen powered prime mover in Australia.

- First trial globally for PepsiCo
- Potential of an initial order of 10 or more subject to a successful six-month trial
- Pure Hydrogen have exclusive rights to the truck design globally
- Trial planned to commence Q2 CY2024 at a Pepsi Co depot in Queensland



VEHICLE FLEET: HDRIVE WASTE COLLECTION VEHICLES

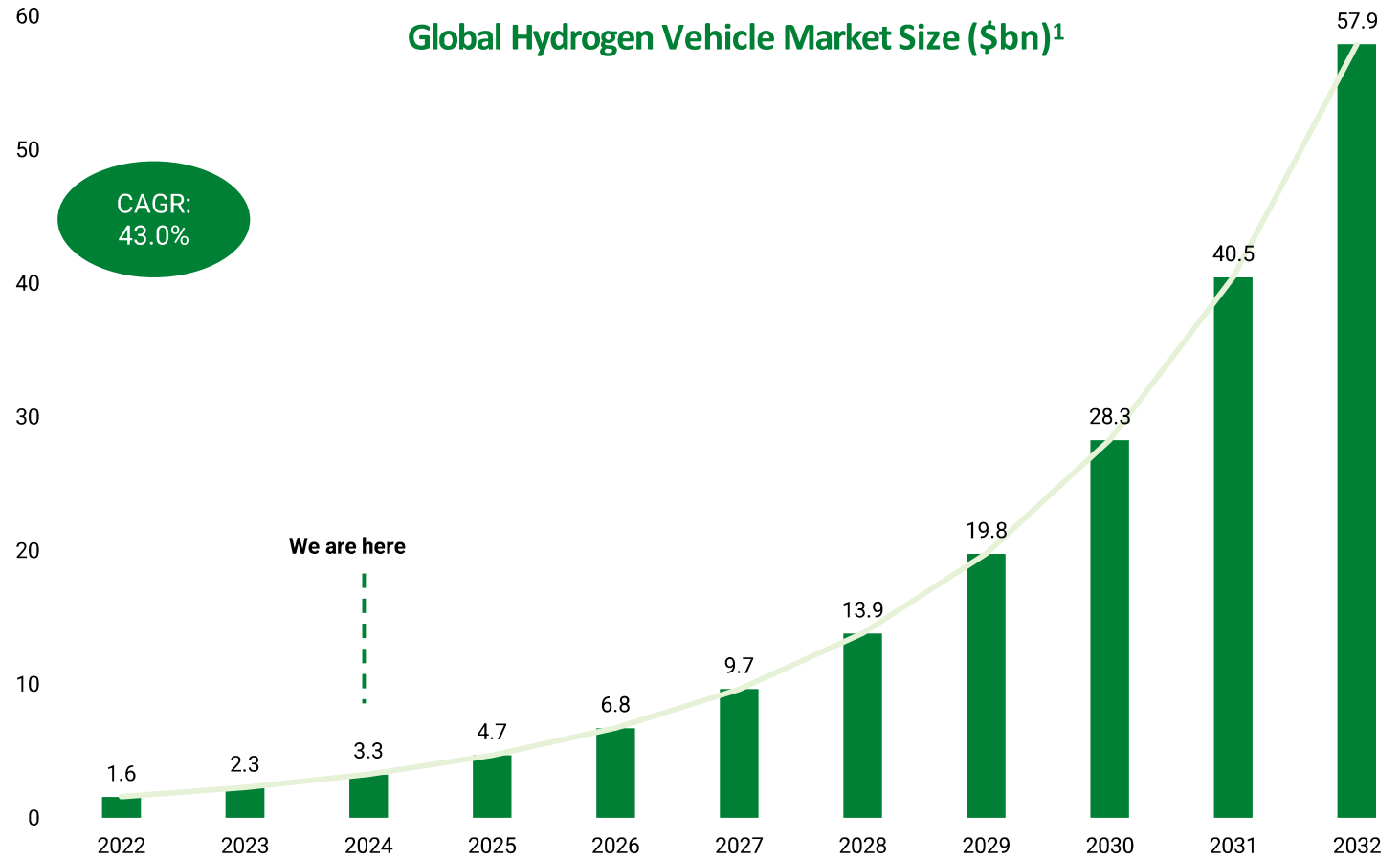
- Established a market-leading position in the waste management sector in Australia
- Trials secured with two large waste management groups in Australia - JJ Richards & Solo
- JJ's is one of the Australia's largest waste management companies with a 2,000+ vehicle fleet; early 2024 vehicle trial in SE Qld
- Solo services ~15,000 customers and has signed up for a trial of a FCEV refuse truck in Tweed region commencing mid 2024
- Potential for multi-vehicle fleet orders post successful trials



INDUSTRY TRENDS: GLOBAL HYDROGEN VEHICLE MARKET

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Global Hydrogen Vehicle Market Size (\$bn)¹



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 2025.

INDUSTRY TRENDS: GLOBAL HYDROGEN DEMAND IS GROWING

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Government support has increased as many are investing in research and development for the production and usage¹



Increasing interest in using hydrogen as a **clean energy source** for powering vehicles and generating electricity, with zero emissions¹

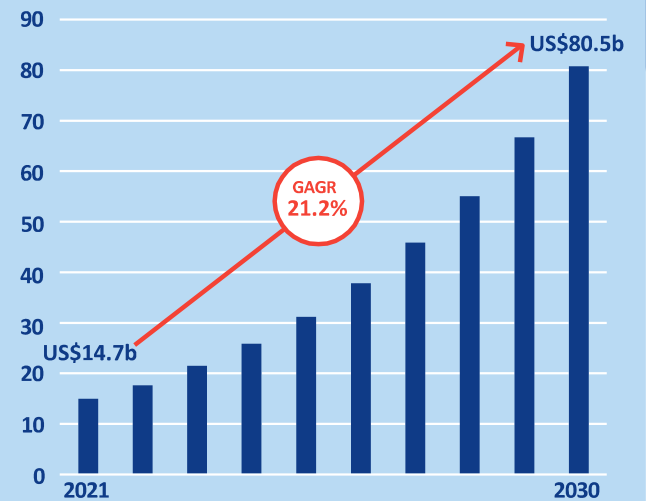


The cost of producing hydrogen is falling due to the continual **advancement in technology** making it cheaper to produce hydrogen from renewable sources¹



Growing infrastructure for using and storing green hydrogen with increases in the number of refuelling stations for hydrogen powered vehicles and new storage facilities¹

THE GLOBAL HYDROGEN FOR FUEL CELL MARKET WAS VALUED AT US\$14.7 BILLION IN 2021 AND IS PROJECTED TO GROW AT A CAGR OF 21.2% FROM 2021 TO REACH US\$80.5 BILLION BY THE YEAR 2030¹



“Deloitte’s 2023 analysis of the global potential of the green hydrogen market predicts steady and significant growth, with the market reaching a value of US\$1.4 trillion by 2050.”

www.springwise.com

INDUSTRY TRENDS: HYDROGEN POWER GENERATION – MYNT

First approved Hydrogen Fuel Cell Generator in Queensland

- Mynt Technologies is a leading Australian power generator manufacturer, manufacturing hydrogen electric power generators. The Purple H2 is designed to provide a clean energy alternative solution to diesel generators in base load applications for mining, industrial, agricultural and construction clients
- Trial secured with Australian Meat Processing Corporation to be used in an Abattoir in Qld to help reduce carbon emissions in the the Red Meat industry
- H2 Generators can be used also as a conduit for the BEV market as a clean green source of remote power to help with EV Charging

