



INVESTOR PRESENTATION

Renewable Energy and Solid State Hydrogen Storage

October 2022

A large landscape photograph occupies the left side of the slide. It shows a golden-brown field in the foreground, a single utility pole in the middle ground, and a blue sky with white clouds in the background. A green and blue geometric shape is overlaid on the right side of the image.

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Overview

Bringing the 100% Renewable Solid State Hydrogen Storage solution to Customers

Tempo Australia* (GreenHy2), is commercialising the next generation of Stand-Alone Power Supplies using Solid State Hydrogen Storage Technology that will provide Australia's electricity networks with a 100% Renewable Fraction, Off-Grid, Safe and Reliable renewable energy solution.

GreenHy2 will capitalise on the benefits of solid state storage of Hydrogen to increase energy dependability, reduce cost and strengthen Australia's renewable energy supply network.

* Rebranding

tempo
greenHy2

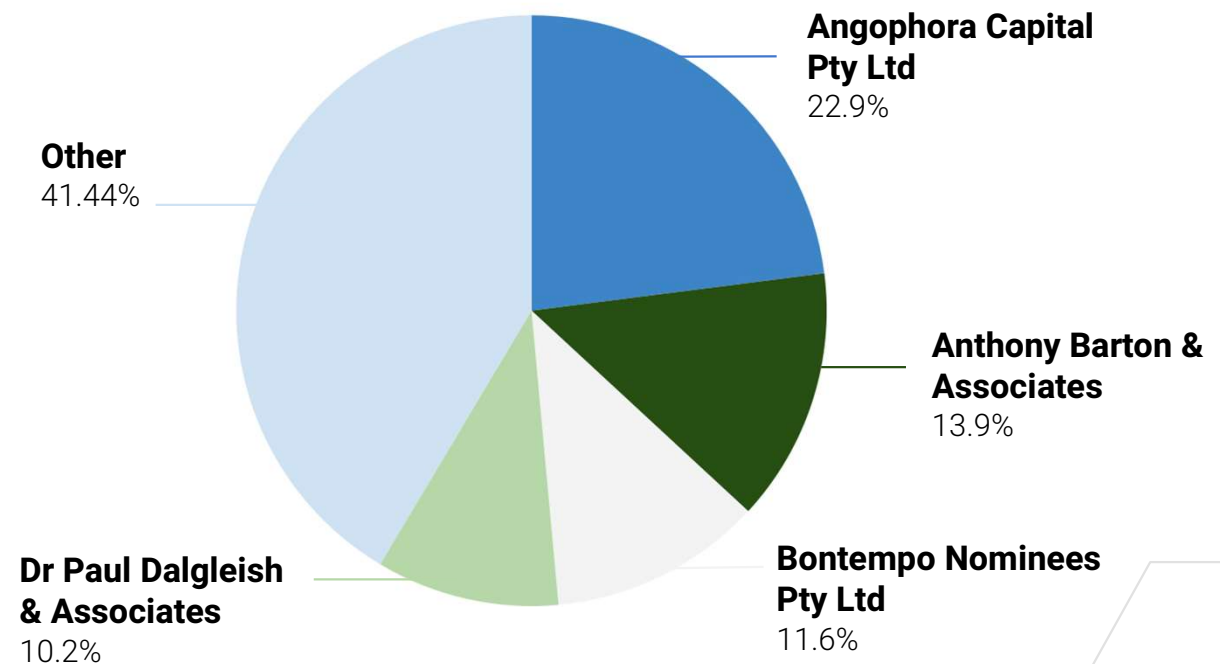


Company Snapshot

ASX Ticker	TPP*
Shares on Issue	364,135,506
Performance Rights on Issue	26.3M
Options on Issue	Nil
Market Cap	\$12m
Cash @ Bank	\$1.2m
Debt	Nil
Enterprise Value	\$10.8m
Top 20 Ownership	72.42%

*Name and ticker change pending shareholder approval at EGM on 9 November to greenHy2 and ticker H2G

Top Shareholders



The Board and Key Management Personnel



Dr Paul Dalgleish

Executive Chairman

Dr Dalgleish has had over 30 years of experience in senior management roles of Engineering companies including Chief Executive and Managing Director of Public listed engineering companies for over 15 years.

Dr Dalgleish is recognised as a turnaround/start-up specialist with strengths in strategic positioning for growth; has operated across a range of sectors, from infrastructure to resources and throughout diverse geographies.

Dr Dalgleish has an Honours degree in Engineering, Doctorate in Business and is a Fellow of the Institute of Engineers and a Member of the Institute of Company Directors.



Mr Charles Rottier

Non-Executive Director

Charles is a professional non-executive director which follows a successful executive career in engineering focussed organisations. He has most recently stepped down from the position of Chair of LogiCamms Pty Ltd, following a successful turnaround and merger.

Previously, Charles has held roles in executive management, CEO, and Chief Strategy Officer for companies including Austin Engineering, Transfield Services Design and Construction Group, MWH Australia, and CMPS&F Pty Ltd.

Charles is currently Chair of Future Fuels CRC, which is researching the transportation of low carbon fuels, and a director of Pinssar, a technology start-up Company.

Charles has an Honours degree from University of Sydney, is a Fellow of Institution of Engineers Australia, and a Graduate Member of AICD.



Mr William Howard

Director, CFO and Company Secretary

William Howard was appointed Chief Financial Officer and Company Secretary in July 2019 and Executive Director in August 2019.

Bill brings significant experience to both these roles, having served for the past three years as the CFO of a Financial Services company in Western Sydney, realigning financial systems, operations and reporting, along with coordinating due diligence processes for interested parties on potential acquisitions.

Prior to this, Bill had performed the role of General Manager Finance to a mining services business in the Hunter Valley, whilst managing and operating his own labour hire company. The preceding decade saw Bill as Regional Operations Manager at AJ Lucas and previous to that with Lahey Constructions Pty Ltd as General Manager Finance.

Bill holds a Bachelor of Financial Administration and is a qualified Accountant.

The Board and Key Management Personnel



Mr Paul Thackray

Head of Group Operations

Engaged in implementation of all aspects of the operations including implementation of the core Green Hydrogen strategy for the company including divestment of non-core operations, funding and procurement of government grant and R&D funding.

Previously Paul was co-owner and CEO of a software consulting and development business from 1994 to 2012 employing 30+ staff developing bespoke software for various ASX 200 and private clients.

Paul holds a Bachelor of Commerce (Accounting, Finance & Systems) and is a member of the Australian Institute of Company Directors.



Dr Tony Pignat

Executive General Manager

Tony has over 35 years of construction, operation and maintenance experience in the resources sector having worked in various senior management roles in Western Australia, New South Wales, Hong Kong, and the People's Republic of China.

His experience includes the management of the construction teams on large scale iron ore processing facilities for Rio Tinto, BHP and FMG. Tony has also worked as a mine manager and quarry manager for various ASX listed companies that involved various day to day operations and maintenance roles.




Dr Luc Bodart

Manager and Chief Engineer

Over 30 years of international experience in engineering and project management within Design-Build, EPC and BOOT environments, related to major municipal and industrial water and power generation projects. Establishing new entities in Thailand, Malaysia and Indonesia, developing the strategic directions and responsible for the P&L of those new companies.

Consistently delivered higher than forecast margin and EBIT on various construction projects including the Senipah Combined Cycle Power Plant (East Kelantan, Indonesia), Thai Oil Co-Generation Plant (Thailand), Chandra Asri Refinery Utilities Boilers (East Java, Indonesia), Kaeng Khoi Power Plant WTP (Thailand), Salalah SWRO (Oman), Johor River Water Works (PUB at Kota Tinggi, Malaysia), Tamar Valley Power Plant (TAS), Pimpama WWTP Alliance (QLD).

Metal Hydride Technology - GKN

A photograph of a metal hydride storage container, likely a GKN product. The container is cylindrical and made of metal, with a greenish-grey internal structure visible through a transparent section. The container is mounted on a metal frame, and the background is dark.

Solar and off Grid IP – GKN and GreenHy2

The diagram illustrates a solar and off-grid power system. On the left, a 'CUSTOMER' is shown with a house and a 'Buffer storage' tank. The system components include:

- WATER**: A green tank representing water source.
- WIND**: A wind turbine.
- SUN**: A solar panel.
- H2 STORAGE**: A large grey tank labeled 'Low pressure metal hydride technology'.
- Heat Management**: A red box.
- FUEL CELL**: A blue box.
- INVERTER**: A yellow box.
- BATTERY**: A black box.
- H2 PRODUCTION ELECTROLYSIS DRYER**: A grey box.
- DC/DC**: A small grey box.

Connections are shown with dashed lines: yellow lines for power flow and red lines for hydrogen flow. The system is designed to provide power to the customer and store energy in the buffer storage tank.



Technology

Solid State Hydrogen Storage in Metal Hydrides

Key Features



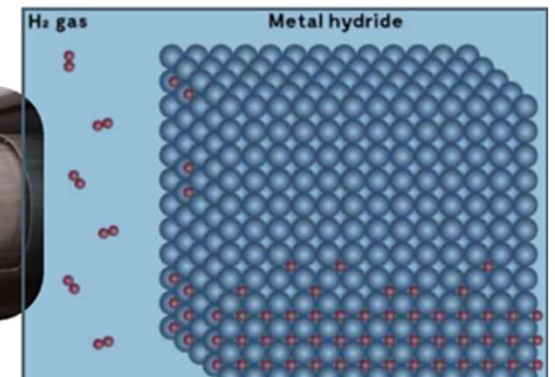
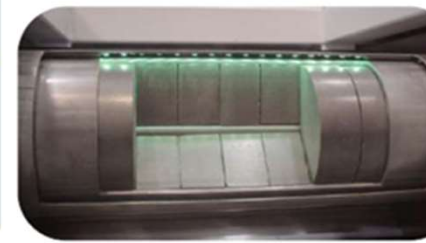
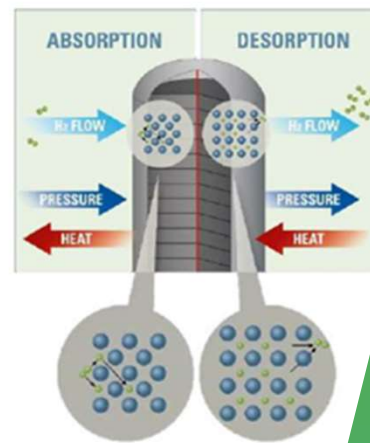
The technology for creating the Metal Powder Lattice is patented



Hydrogen is stored as a solid within the Metal Powder Lattice



Metal Powder retains its lattice structure permanently and does not degrade



H₂ is stored as
metal hydride /
solid state

Low pressure
(<40 bar) -
inherent

Low
temperature
(<65°C)

Technology

Solid State Hydrogen Storage in Metal Hydrides

Why is hydrogen the answer



100% sustainable

Green hydrogen is an emission free fuel



Versatile

Multiple energy pathways



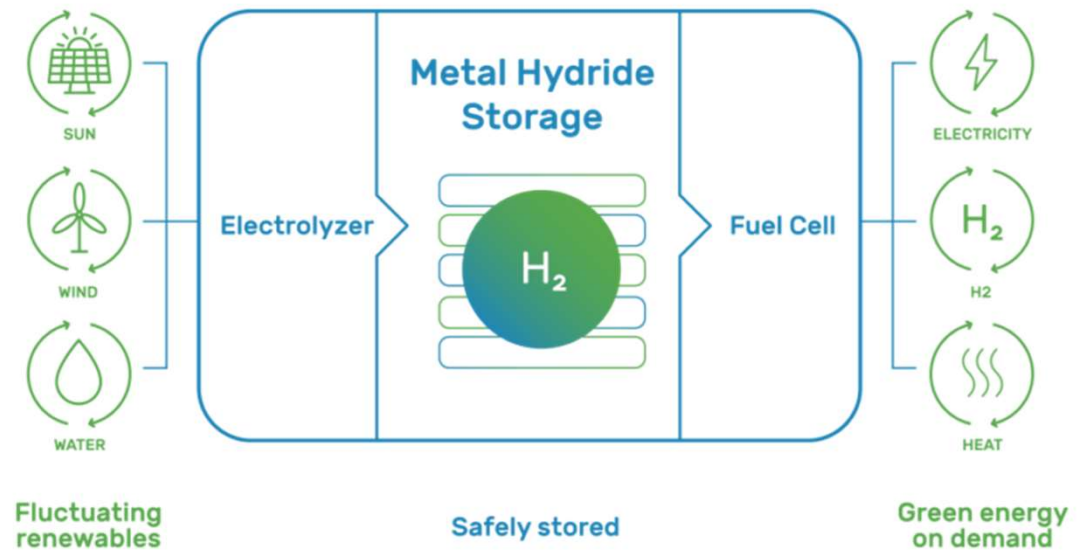
Transportable

Distribute energy across sectors and regions



Storable

Easily stored and provides an energy buffer to increase system resilience



Enables large-scale renewable integration and power generations

Technology

Solid State Hydrogen Storage in Metal Hydrides

Key Advantages

Very High Energy Density



3 times compressed Hydrogen at 700 Bar and up to 10 times Lithium

Cost Advantage



Storage cost is significantly cheaper than lithium and diesel and has at least a 20 year life

Extremely Safe



Hydrogen storage is low pressure and solid state, that is extremely safe. The storage is approved for Utility usage and passed all bushfire, operation and customer safety regulations

Off Grid



Only commercial technology capable of 100% renewable fraction

Completely Green





Technology is targeted at 100% renewable generation

Technology

Metal Hydrides vs Traditional Battery Storage

Comparison to Lithium Batteries and Compressed Hydrogen



	Lithium-ion Battery	High-pressure Hydrogen	 Metal Hydrides	
Safety	Medium risk	Medium risk	Low risk ✓	No depth of discharge limits
Recyclability	5% Current range of recyclability	70% Issue are carbon fiber materials	100% Just standard metals ✓	No capacity fade
Lifespan	Medium < 10 years	Medium > 10 years	High > 20 years ✓	No self-discharge



Safety

Safest way to store hydrogen



Sustainability

100% recyclable



TRL

Commercially available now



Costs

Long life & potentially eliminates compression

Technology

Hydrogen Storage Commercial Systems

HY2 Product Suite and Scalable Applications

HY2MINI



10 – 25 KG



170 - 425 KWH Electrical



Maritime Transport



Industry / Transport

HY2MEDI



30 - 120KG



0.5 – 2 MWH Electrical



Power Backup

HY2MEGA



+260 KG



8.6 MWH Energy



Micro Grids & Buildings



Off-Grid

SYSTEMS

STORAGE

Technology Digital Platform

Digital Platform and Building Blocks



Technology Digital Platform



Digital Roadmap and Services



Advanced
performance
monitoring



Operating model
improvements



Basic system
monitoring and
status tracking



Systems and
unit comparison



Data pipeline sanity
check and tracking



Maintenance and
alert notification



Efficiency analysis
powered by
advanced analytics

tempo
greenHy2

Digital RoadMap and Services - System Definition

Analysis



Base simulation and modelling



Parameter driven system definition



Advanced closed loop simulation

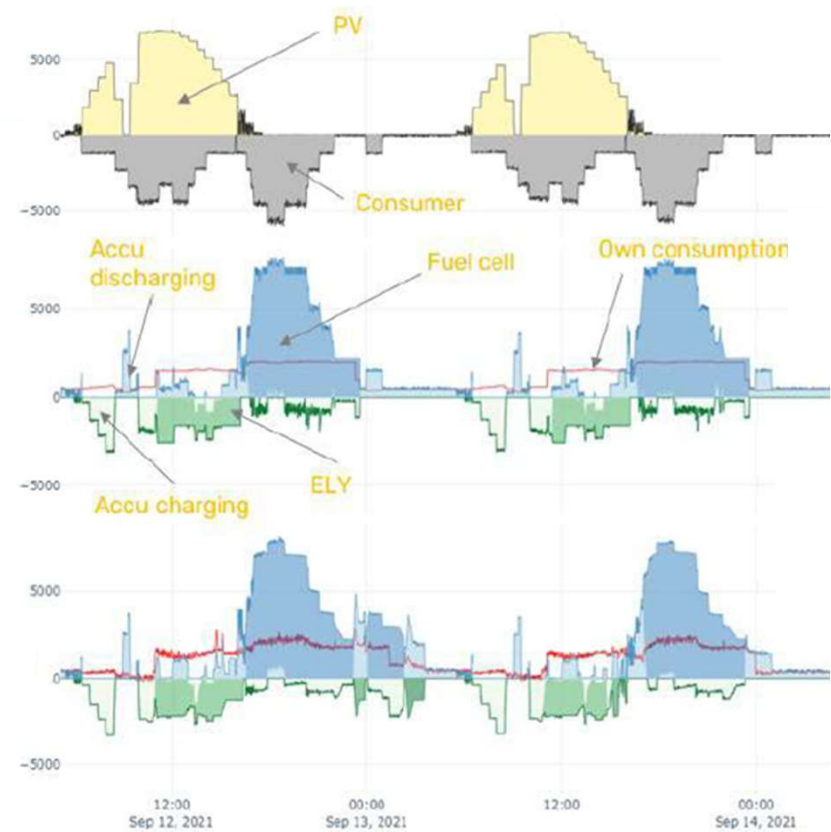


Extended simulation (+ Heat)

Input/Output

Simulation

Measurements



Market Scope

Why Australia Needs greenHy2

Australia is a large continent which is sparsely populated making it impossible to have an economic National Grid. Most existing power networks have significant numbers of uneconomical customers requiring large infrastructure for limited users. In Australia Floods, cyclones and bushfires are common hazards, that can cause damage to costly energy infrastructure required to power remote Australia. Transmission and distribution lines also have an inherent Bushfire risk.

Australia is gifted with sunshine and wind that can power renewable generation



Remote users and communities such as Farms, Mining Towns, Islands and Settlements are common

The Transmission Network includes many Single Wire Earth Return Connections to small loads



Infrastructure Demand Australian Strategic Influences

The Solid State Hydrogen Storage is a strategic fit for Australia for the following reasons

Fragile Grid System

Australia has a low population density over a very large area - impossible to have an economic National Grid. Many users have long SWER lines where 1% of users can use from 20% to 50% of Grid costs.

Our System is ideal for removal of distribution network therefore reducing cost

Hazard Prevention

Transmission lines are damaged by (and may cause) bushfires, requiring high maintenance which is a significant risks that needs to be managed.

Our System reduces transmission and distribution networks

Dependence on Diesel

Australia's remote communities, mines and islands rely on diesel generators which require significant maintenance and are costly to run, noisy and difficult and or unsafe to deliver fuel during fires, floods and cyclones.

Our System removes diesel generators and is very competitive with Diesel

Low Cost and Economic Solution

The abundance of solar and wind power in Australia represents a significant opportunity for renewable power generation.

Our System is safe and low cost to operate with the potential to be operated from Solar, Wind and or hydro generation

Market Analysis Sectors

**Predominant
current
markets are**



Stand Alone
Power Supplies
(SAPS and SPSS) for
Government Utilities



Remote
Telecommunications
Installations (AUS and NZ)



Diesel Substitution
for Remote
Communities
Mines, Islands etc.



Current off grid
installations








Micro Grids for smaller
communities








Islands for environmental
sustainability and
substitution of diesel

Market Analysis Customers

Customer		Market	Status of engagement with greenHy2
	Essential Energy	<ul style="list-style-type: none"> 1% of Customers are uneconomical with respect to grid costs 1% of Customers is 9,000 Future Investment if converting to SAPs > \$2B 	<ul style="list-style-type: none"> Prequalified with others for 300 units Commitments around Mid to late 2023
	Western Power	<ul style="list-style-type: none"> 1% of Customers are uneconomical with respect to grid costs 1% of Customers is 23,000 Future Investment if converting to SPSs > \$5B 	<ul style="list-style-type: none"> Slow acceptance of the Technology
	Horizon Power	<ul style="list-style-type: none"> 57,000 Customers heavily supported by microgrids and diesel power stations Future Investment if converted to SPSs > \$5B 	<ul style="list-style-type: none"> Visited Cutler's Cottage early September 2022 Currently Evaluating Applications
	Energy Queensland	<ul style="list-style-type: none"> Currently reviewing technology for SAPS 	<ul style="list-style-type: none"> Completed Feasibility Study for Thursday Island and Bamaga (\$400M) Reviewing Demonstration Plant
	Telstra	<ul style="list-style-type: none"> Currently reviewing technology for SAPS 	<ul style="list-style-type: none"> Current submitting EOI for approximately 20 MEDI units for off grid installations

Market Analysis Competitors (SAPS)

Company		System	Stage	Region	Entirely renewable?
	greenHy2 (GKN Hydrogen)	Solar – Metal Hydride	Commercialisation	Australia	Yes
	LAVO	Solar – Metal Hydride	Early stage Commercial	Australia	Yes
	H2Planet	LaNi Hydride	Small Scale	Europe	No
	Boundary Power	Solar – Li – Diesel Solution	Commercialisation	Australia	No
	Pacific Energy	Solar – Li – Diesel Solution Investing in Compressed Hydrogen	Commercialisation	Australia	No

Potential Opportunities Pipeline

Over >\$1B of Projects in Pipeline with specific projects listed below



Expression of interest for a Pilot study of up to 30 units



Prequalified for SAPS Program of 300 units (with others) post completion of formal trial, Jun 2023



Expression of Interest for future Tender of 20-30 MEDl units, Aug 2023



Feasibility Study for Thursday Island Standalone Grid ~ Very large scale

Feasibility Study for Bamaga Standalone Grid ~ Very large scale



Tendered Hydrogen Bus Fuelling Station



Shortlisted for SAPs Program ~ multiple units



Submitted Expression of Interest for SPS program



Submitted Expression of Interest for SPS program

Case Studies

Off Grid

Only Commercial Technology Capable of 100% Renewable Fraction

Completely Green

Technology is using 100% renewable generation

Cost Advantage

Storage cost is significantly cheaper than Lithium and diesel and has at least 30 year life

Extremely Safe

Low Pressure solid state hydrogen storage that is extremely safe, has been approved for Utility usage and passed all bushfire, operation and customer safety regulations for use in a Utility Network. Operates at ambient temperature and low pressure.



MINI Systems

25kh H2 Capacity
Stand Alone Solar Power
System
Demonstrator

Case Studies

Decentralised Solutions

Application
100% Off-Grid

System
MEDI



2MWh

Stored Energy

60kg

H2 Storage

16kW

Nominal Power

12kW

Electrolyzer

- Remote shelter 2,000m above sea-level – extreme conditions.
- 100% off-grid with remote management.

Application
Residential e-Charging

System
MEDI



2MWh

Stored Energy

120kg

H2 Storage

16kW

Nominal Power

24kW

Electrolyzer

- Decentralized energy system to charge 20 cars off-grid feeding green power as range extender into coupled small 120 kW battery.

Case Studies

Decentralised Solutions

Application
Micro Grid

System
MEGA



17MWh

Stored Energy

500kg

H2 Storage

1MW

Nominal Power

1.5MW

Electrolyzer

- Two HY2MEHA's added to the mega-watt class hydrogen assets at the ARIES facility on NREL's Campus, CO.
- Validate and simulate grid scale use-cases.

Application
100% Off-Grid

System
MINI



1MWh

Stored Energy

25kg

H2 Storage

8kW

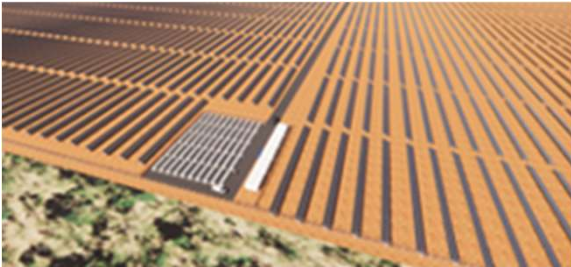

Nominal Power

10kW

Electrolyzer

- Replacement of current grid connection and back-up diesel gen-set. New decentralized clean energy system based on purely PV and green hydrogen storage to power the cottage emission-free.

Case Studies

Project	Details	Status	Next Steps
Groote Eylandt 	MEGA System x 3 Large Mine and Aqua Culture Island Mine 10MW Solar	Finalising design Reviewing funding Expression of Interest	Final design Final investment decisions
Ergon Thursday Island and Bamaga 	MEGA System x 20 19GW / year Island and Remote Settlements	Prequalified and shortlisted Feasibility study won	Feasibility study submitted and under review

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