



ASX ANNOUNCEMENT

Wednesday 31 May 2023

GreenHy2 Limited | 2023 Annual General Meeting Chairman and Managing Director's Presentation

In accordance with ASX Listing Rule 3.13.3 please find attached the Chairman and Managing Director's Presentation to be made at the 2023 Annual General Meeting of GreenHy2 Limited (ASX: H2G, "GreenHy2") to be held on 31 May 2023 at 11.00 am (Sydney time).

ENDS

This announcement had been authorised for release by the board.

FOR FURTHER INFORMATION PLEASE CONTACT:

Paul Dalglish

Executive Chairman & Managing Director
1300 321 094

William Howard

Executive Director, CFO & COMPANY SECRETARY
1300 321 094

ABOUT GreenHy2

GreenHy2 Limited (ASX: H2G) is one of Australia's leading innovators in the delivery of engineering solutions for renewable energy. The company was established in 2011 and has specific expertise in Solid State Hydrogen Storage for use in fuel cells and as hydrogen gas. GreenHy2 is a clean energy company dedicated to reducing our collective carbon footprint.



2023 ANNUAL GENERAL MEETING



GreenHy2 AGM 2023

Welcome to Shareholders

Declare the Meeting Open

Agenda

- Formal Items of Business

- Three Resolutions to be Voted Upon

- The Voting Process will be Conducted and Recorded by Link MarketServices

- The Current Voting Status including Proxy Count will be Outlined

- Outcome of Each Voted Resolution will be Recorded

Formal AGM Meeting Closed

Company Update

- Chairman and Managing Director's Address

- Questions and Answers



Formal items of Business

Annual General Meeting, 31 May 2023 at 11am AEST

MEETING & VOTING PROCEDURE

Voting on the resolutions will be conducted by way of poll.

The resolutions for consideration today may only be voted on by shareholders, proxy holders and shareholder company representatives.

Only shareholders, proxy holders or duly appointed representatives are entitled to speak or vote at this Meeting – that is, those present holding a **YELLOW** attendance card. Those holding **BLUE** attendance cards are not entitled to vote at this Meeting, but are entitled to ask questions and make comments. Those holding **RED** attendance cards are not entitled to speak or vote at this Meeting.

Shareholders, proxies or corporate representatives are entitled to comment or ask questions. At the time each resolution is considered, I will invite any questions specific to that resolution.

BUSINESS – CONSIDERATION OF REPORTS

The first item is to receive and consider the Company's report for the financial year ended 31 December 2022.

The auditor is available to take questions about the conduct of the audit, and the preparation and content of the independent audit report.

There is a separate agenda item dealing with the remuneration report.

There will be no vote on this item relating to the financial report. It is a discussion item only.

I will now address any questions relating to this item of business or any general business questions.



AGM Formally Closed



Chairman & Managing Director's Address

Overview

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



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



Company Snapshot

ASX Ticker H2G

Shares on Issue 419M

Market Cap \$16M¹

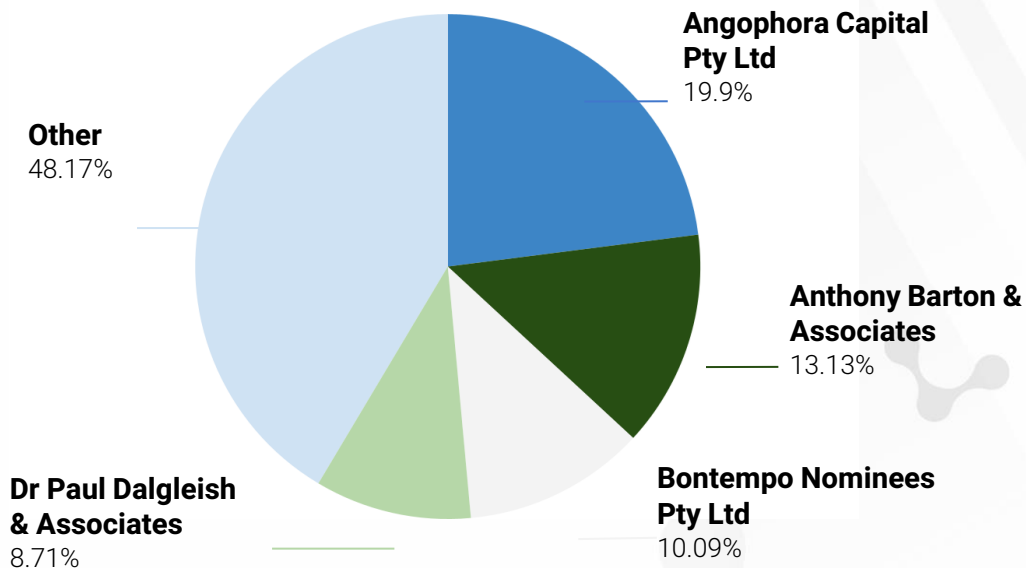
Cash @ Bank \$2.2M

Debt Nil

Top 20 Ownership ~75%

1. At 31st December 2022

Top shareholders





FY22 Highlights

Highlights		
Business Activity	Achievement	Comment
Divestment of Loss making Business TAMS	Loss of \$0.7M [6 MTH]	Loss of \$3.8M FY21
Successful Capital Raising	\$1.8M	15% Raise Completed at 15% Discount to Market
Company Name Change	GreenHy2 Limited	ASX Ticker Code "H2G"
Re-branding	GreenHy2 and H2G	Registered greenhy2.com.au and h2g.au
Leading Edge Digital Presence	Website & YouTube	Name and Brand targeted at Hydrogen market
R&D Tax Support	~\$428k	Completed first round of R&D Tax Submissions
Reduced Operating Costs	Now \$160k/month	Significant Reduction in operating Cost
Tenders Submitted	Over \$500M	Market is actively assessing the Technology
Cutler's Cottage Demonstration Trial	9 months of Operation	12 month Trial started 16 th August 2022
Growth trough M&A	Completed Strategy	Reviewing Synergistic Business Opportunities





Future Growth

GreenHy2 Growth Strategy

Organic Growth

- SAPS, SPS, Solid State Hydrogen Market
- Large Scale Hydrogen Storage (Alternative to Compressed Gas)

Mergers and Acquisitions

- Synergistic Engineering Business (Renewable and Hydrogen)
- Synergistic EPC Business (Energy, Environmental, Water)
- Synergistic Technology Business (Environmental, Hydrogen)

Key Features



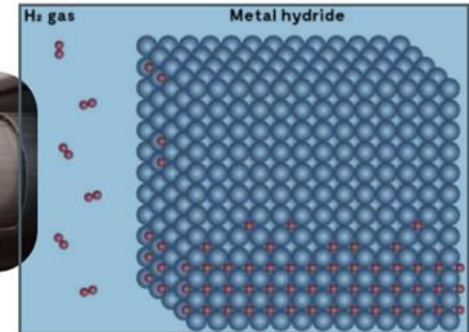
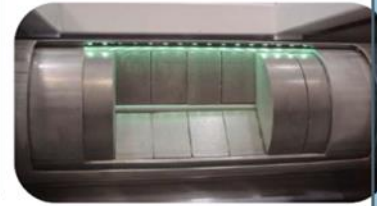
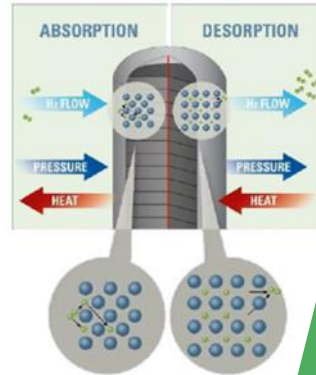
The technology for creating the Metal Powder Lattice is patented



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

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

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



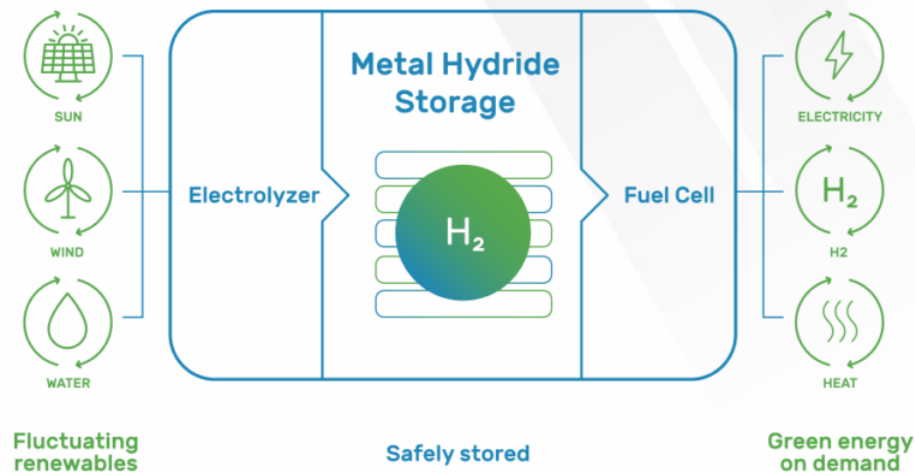
Transportable

Distribute energy across sectors and regions



Storable

Easily stored and provides an energy buffer to increase system resilience



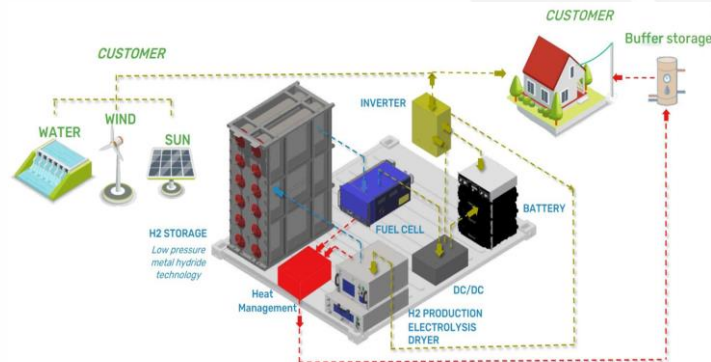
Enables large-scale renewable integration and power generations

Metal Hydride Technology - GKN



GKN Developed the first Commercial Solid State Storage System for Hydrogen with Integrated Electrolysers and Fuel Cells. The robust system generates green hydrogen from 100% renewable energy sources, storing it compactly and safely in metal hydride for reuse when there is no generation.

Solar and off Grid IP – GKN and GreenHy2



GreenHy2 have been working with GKN over two years to provide a fully compliant solution to the Australian market. This included Design of the integrated system to meet 100% off-grid capability being fed from 100% renewable fraction; is in full compliance with Australian electrical requirements, safety standards, HAZOPs and Fire regulations; has the capability to integrate into a local solar configuration; and, be compliant with a Government Utility and National Parks regulations and requirements.

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

Products

Hydrogen Storage Commercial Systems



HY2 Product Suite and Scalable Applications

HY2MINI



10 – 25 KG



170 - 425 KWH Electrical



Utility Stand-Alone Power Supplies



Industry / Transport

HY2MEDI



30 - 120KG



0.5 – 2 MWH Electrical



Power Backup

HY2MEGA



+260 KG



8.6 MWH Energy



Micro Grids & Buildings

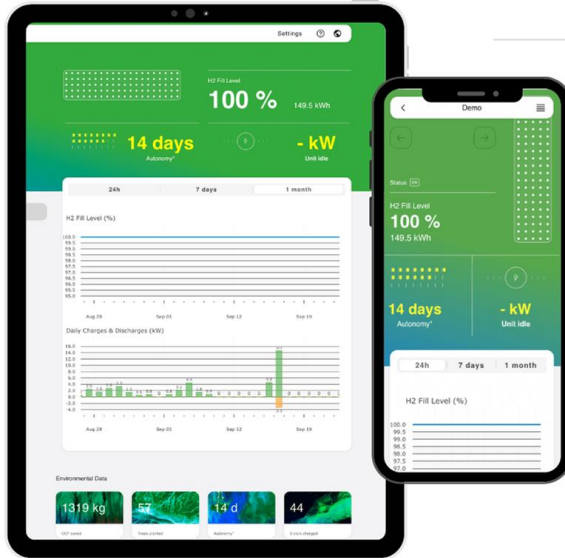


Off-Grid

Digital Platform and Building Blocks



Digital Roadmap and Services



Basic system monitoring
and status tracking



Maintenance and alert
notification



Systems and
unit comparison



Efficiency analysis
powered by advanced
analytics



Advanced performance
monitoring



Operating model
improvements



Data pipeline sanity
check and tracking

Analysis



Base simulation and modelling



Parameter driven system definition

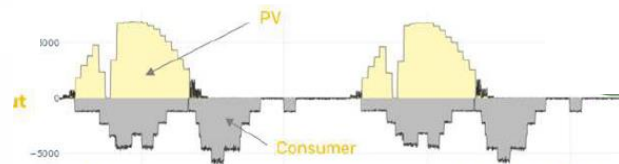


Advanced closed loop simulation

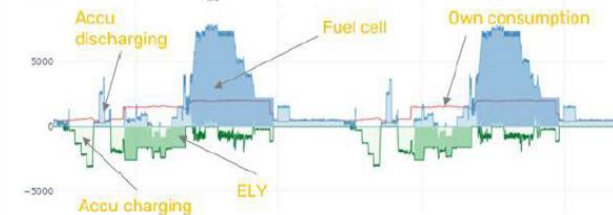


Extended simulation (+ Heat)

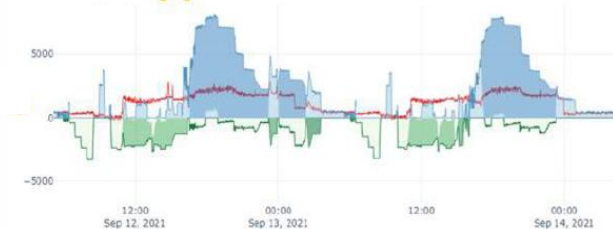
Input/Output



Simulation



Measurements



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

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	○ 1% of Customers are uneconomical with respect to grid costs ○ 1% of Customers is 9,000 ○ Future Investment if converting to SAPs > \$2B
	Western Power	○ 1% of Customers are uneconomical with respect to grid costs ○ 1% of Customers is 23,000 ○ Future Investment if converting to SPSSs > \$5B
	Horizon Power	○ 57,000 Customers heavily supported by microgrids and diesel power stations ○ Future Investment if converted to SPSSs > \$5B
	Energy Queensland	○ Currently reviewing technology for SAPS
	Telstra	○ Completed Feasibility Study for Thursday Island and Bamaga (\$400M) ○ Reviewing Demonstration Plant
	Telstra	○ Currently reviewing technology for SAPS ○ Current submitting EOI for approximately 20 MEDI units for off grid installations

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.



QUESTIONS & ANSWERS

PIONEERING
HYDROGEN STORAGE

A logo consisting of three interconnected circles of varying sizes, arranged in a triangular pattern.

www.greenhy2.com.au

Disclaimer

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