



# AGM Presentation

14 November 2024

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**1414 Degrees' mission** is to aid energy-reliant industries to decarbonise with cost-effective thermal energy storage and low-carbon hydrogen.



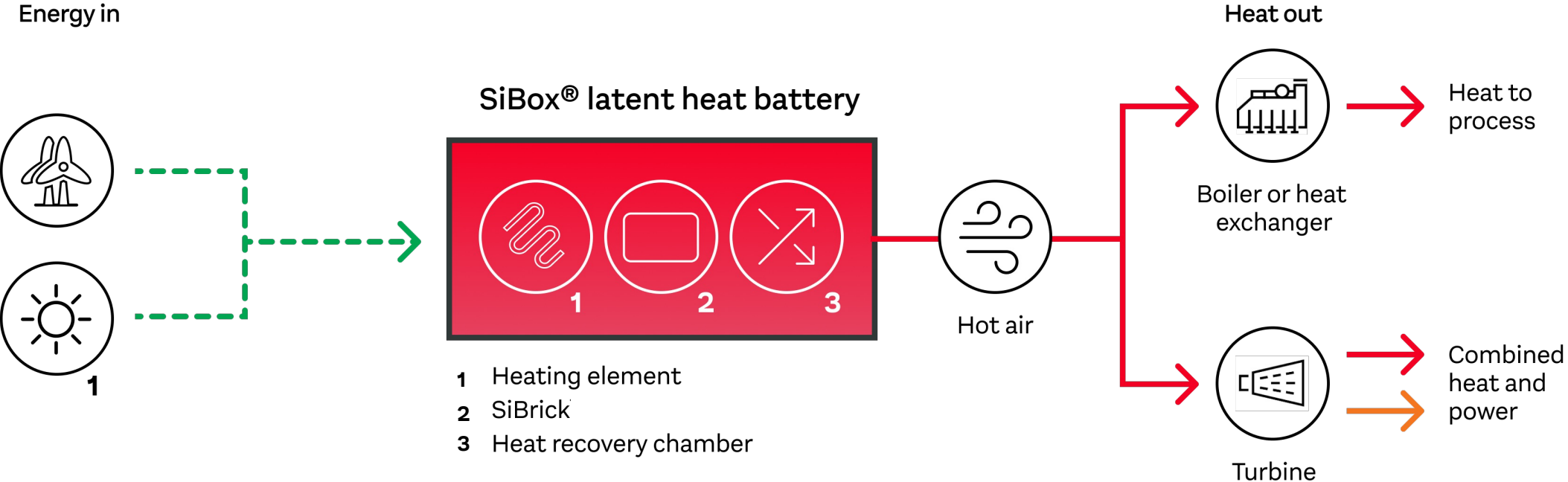
# This is how we do it





# SiBox takes electricity and stores heat in SiBrick

Long duration thermal energy storage provides a hot air stream (300-900°C) to replace or supplement gas burning for industrial processes and electricity generation.



# SiBox<sup>®</sup> Demonstration Module 8,000 hours continuous operation

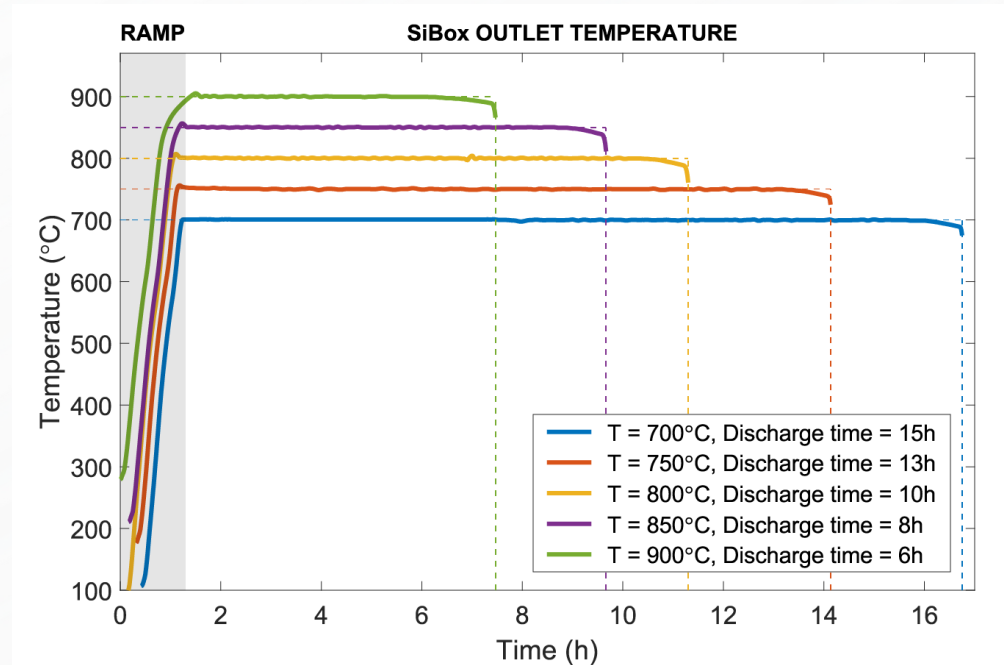
Robust and reliable technology for clean heat supply from variable electricity supply



Operational from March 2023

Proven **consistent** supply of clean hot air up to 900°C

Proven **scalability** – SiBrick modules can be replicated for GWh storage



**Outlet air temperature to the process.**

Shows 5 runs at various outlet temperature setpoints

# Pillars of 14D's Commercialisation Strategy



## Product Development

- Scaling SiBox technology to meet industrial decarbonisation needs
- Forming manufacturing partnerships to produce SiBrick at scale and ensure consistent quality

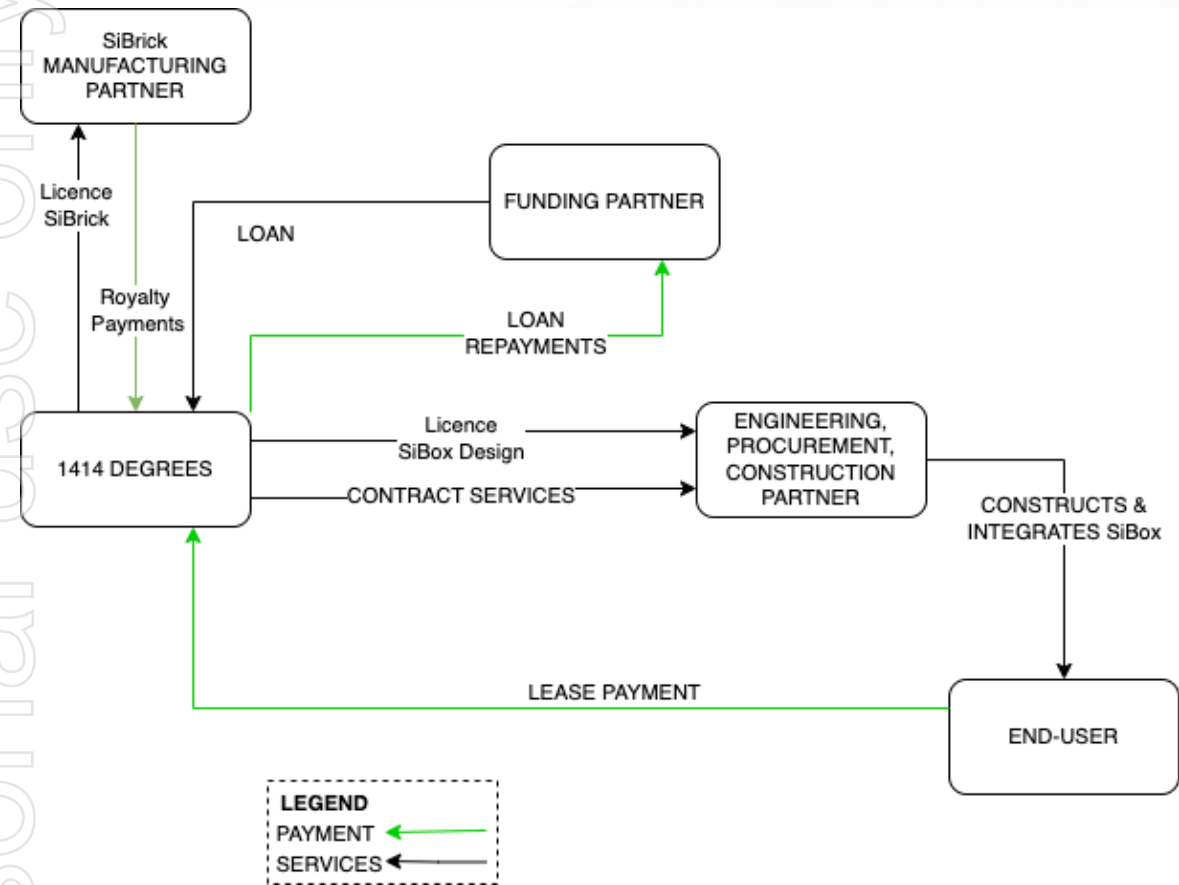
## Integration Solution Partners

- Collaborating with top tier engineering and integration firms to provide complete solutions
- Enhancing competitiveness with tailored solutions for diverse industrial applications

## Project Finance: Securing Strategic Funding

- Project finance partnerships of government grants and private finance to support large scale deployment
- Mitigate risk and capital demands through collaborative financial solutions

# How will we make money?



14D markets and sells energy storage and generation solutions.

Working with partners, we manufacture and deliver a complete solution to industrial customers through finance agreements.



# We're positioned to out-perform our competitors



We have many years of experience building energy storage solutions.

We have very credible and experienced manufacturing partners.

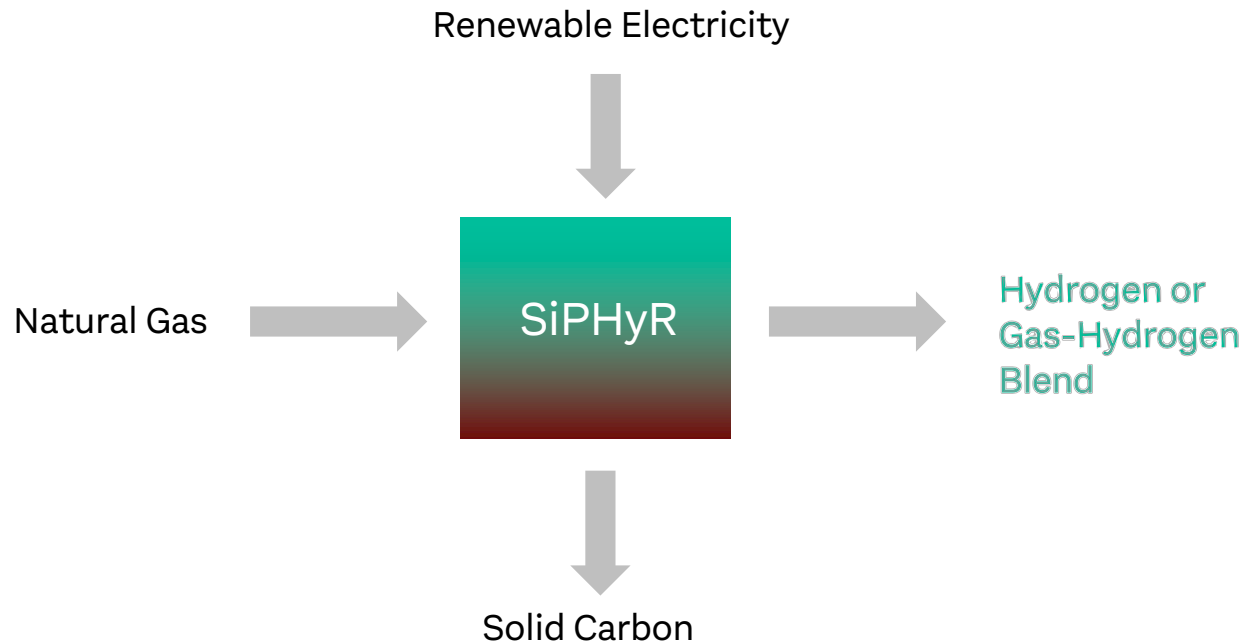
We are backed by large multinational energy companies.

We have demonstrated the ability to safely deliver solutions on time and at scale.



# SiPHyR™ low-carbon hydrogen from natural gas

Combining SiBrick and a bubble column reactor to deliver decarbonised natural gas for industries & homes



Low-emissions H<sub>2</sub> could supply 25% of world's energy needs and become a **EUR 10 trillion market** if <US\$2/kg price point is achieved.

**Turquoise H<sub>2</sub>** – lower cost and more attractive alternative to blue or green H<sub>2</sub>. Leveraging existing infrastructure to scale up means a faster path to implementation.





# GAS-TESS

Capturing, storing, and regenerating waste heat energy



SA Water



Government of  
South Australia

Since 2008, we have been pioneers in thermal energy storage with a strong history of safety, innovation, research and development.

GAS-TESS technology uses regenerative burners to capture flare gas, storing the energy as heat that can be returned to industrial processes, supporting efficient and sustainable energy use.





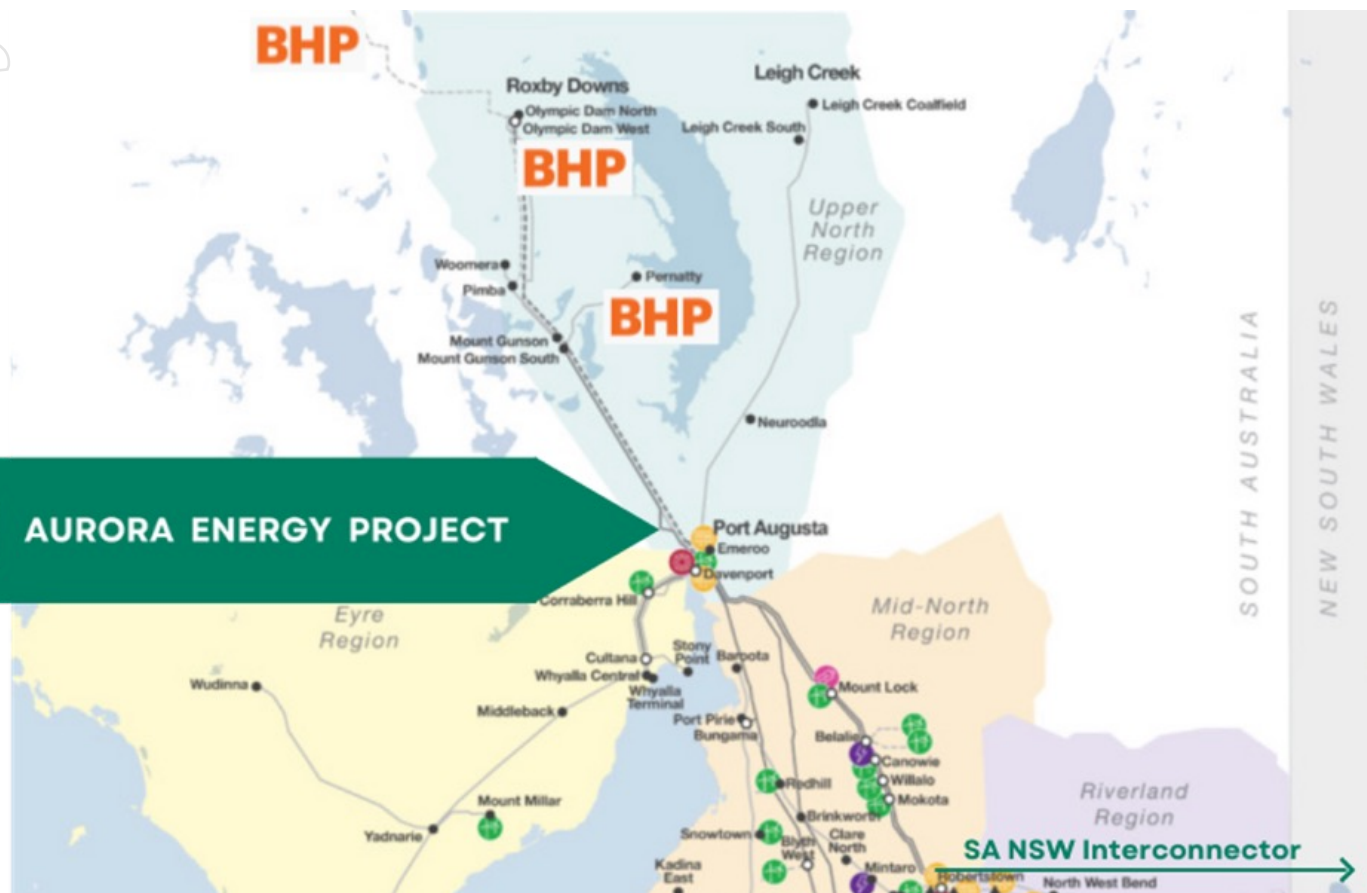


# Aurora Energy Precinct

Access to high voltage  
transmission assets in the  
National Electricity Market

# 140MW 2-hour Li-ion Battery Energy Storage System

Strategic position in zone with excess renewable generation to drive revenue from National Electricity Market



# Our path to commercial success



## 1. Mission-Driven Innovation

- a. Developing cost-effective thermal energy storage solutions for industrial decarbonisation and low-carbon hydrogen production.

## 2. SiBox® Technology

- a. Proven high-temperature storage solution with 8,000+ hours of continuous operation.
- b. Positioned to replace fossil fuel-based heat in industrial processes.

## 3. Strategic Commercialisation

- a. Partnering with manufacturers, engineering firms, and financiers to scale SiBox production and deployment.
- b. Securing project financing and government support to drive adoption.

## 4. Market Opportunity

- a. 40% of industrial boilers in Australia require replacement in the next 5 years.
- b. Strong demand for decarbonisation solutions as industries commit to 2030 carbon reduction goals.

## 5. Revenue Potential & Growth Strategy

- a. Leveraging experience in energy storage and robust partnerships to deliver end-to-end solutions.
- b. Positioned to outperform competitors with a combination of unique technology, reliable supply chain partners, and strategic financing.





Thank you.

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