



Annual General Meeting

2022 — 2023

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Investment Highlights



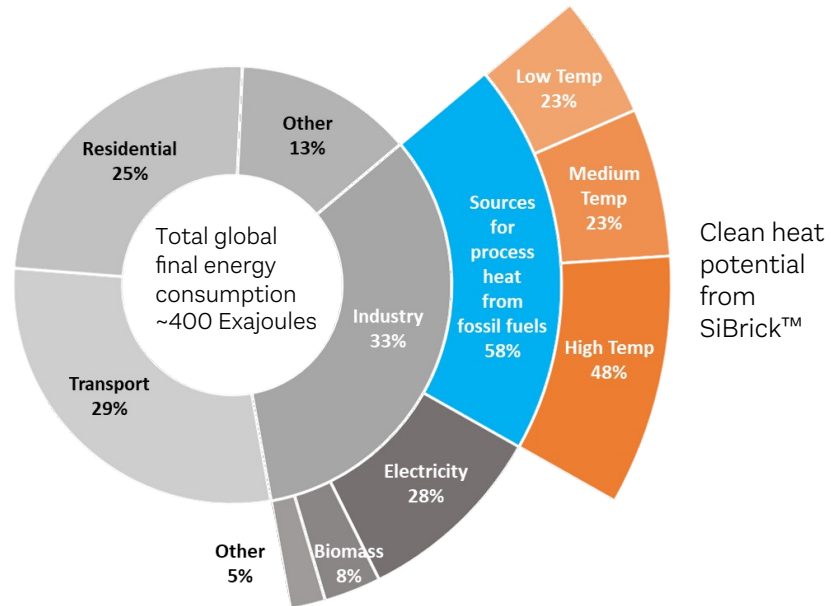
Valuable Clean Energy Technologies
Revenue Streams
Strategic Growth Drivers
Energy Storage
Electrification
Global Market
Affordability
Silicon
IP Edge
Alliances
Technology Readiness
Team Expertise

Decarbonising industrial processes and electricity
Aurora Energy Precinct for near-term revenue in Australia’s National Electricity Market
Latent heat battery for reliable industrial processing with renewables
Replacing conventional gas technologies
Decarbonising trillion-dollar fossil fuel processes
Arbitrage energy costs
Stable, very high-temperature heat
15 years of patent and trade secrets
Strategic partners in our SiBrick™ and SiBox® technologies
TRL 6-7, demonstrating proven technology in operational environments
Experienced team with a track record of success in energy innovation and business growth

STRATEGIC PARTNERS



Global Decarbonisation creating a total addressable market for 8 trillion SiBrick™



Clean heat potential from SiBrick™

High temperature industrial heat has no commercially available options to stop the use of fossil fuels.

Global Decarbonisation of industry to drive 14D growth



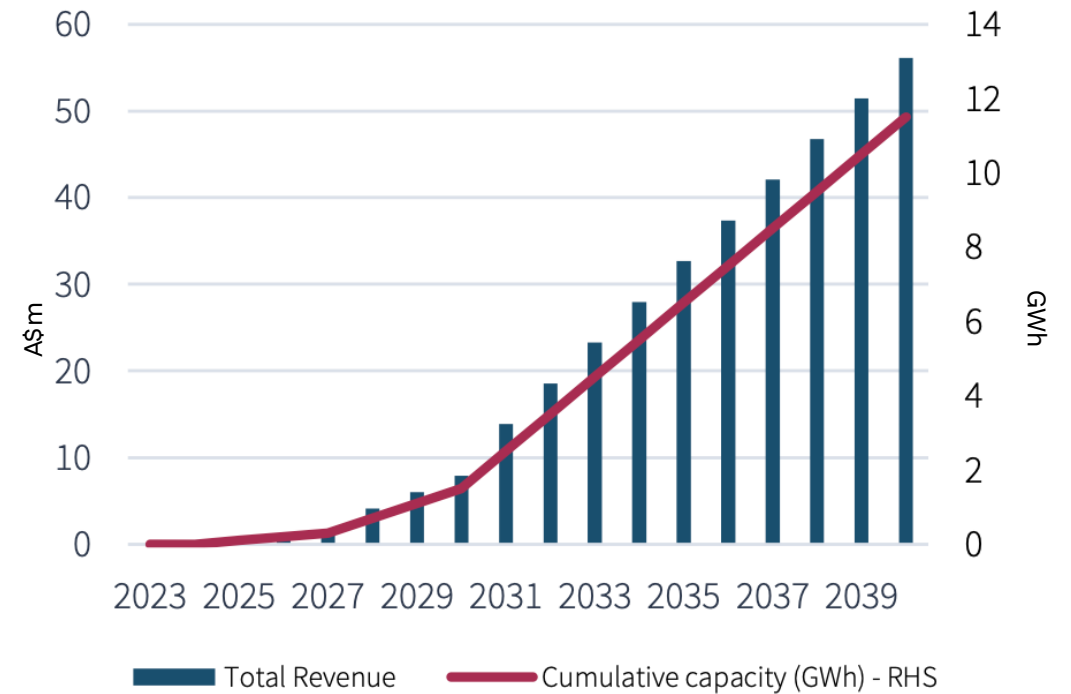
Revenue (A\$ m) vs Cumulative capacity installed (GWh)

The Total Addressable Market for 14D technology is 8 million GWh

Less than 1% of this market can drive major revenue growth for 14D

Hannam & Partners modelled a scenario for license fees and royalties from SiBrick and the SiBox through a range of potential end use cases.

Source: Hannam & Partners Initiation: innovative silicon-based thermal energy storage system to harness low-cost renewable power
2 Oct 2023



Aurora Energy Precinct



Strategic position in National Electricity Market to drive near term revenue

140MW/280MWh battery energy storage system (BESS)

High voltage access to National Electricity Market (NEM)

Key location on major 275kV transmission line

Low-cost charging from volatile grid sources

Earnings from arbitrage and Frequency Control Ancillary Services (FCAS)

Precinct plans for:

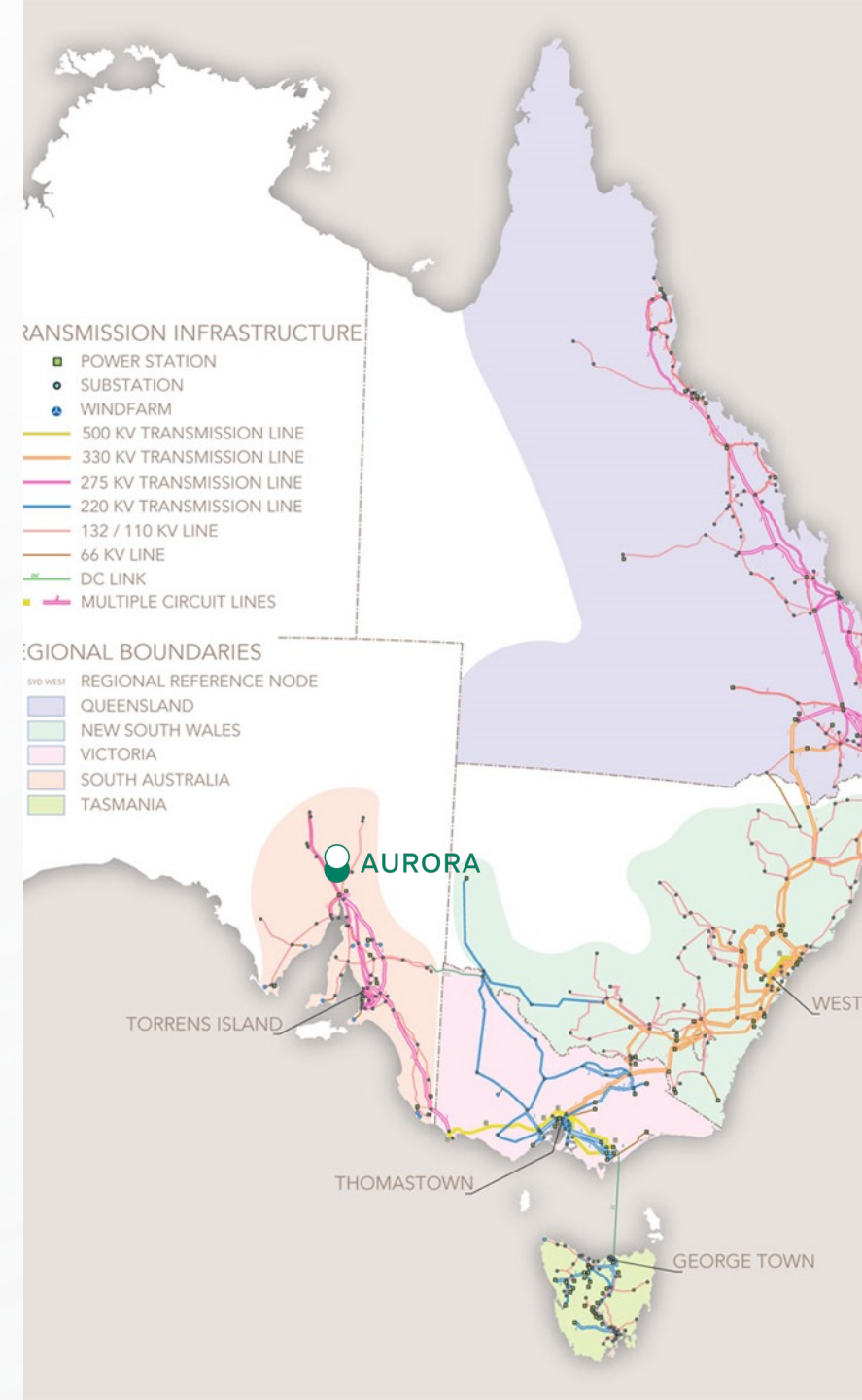


TRANSMISSION INFRASTRUCTURE

- POWER STATION
- SUBSTATION
- WINDFARM
- 500 KV TRANSMISSION LINE
- 330 KV TRANSMISSION LINE
- 275 KV TRANSMISSION LINE
- 220 KV TRANSMISSION LINE
- 132 / 110 KV LINE
- 66 KV LINE
- DC LINK
- MULTIPLE CIRCUIT LINES

REGIONAL BOUNDARIES

- SYD WEST REGIONAL REFERENCE NODE
- QUEENSLAND
- NEW SOUTH WALES
- VICTORIA
- SOUTH AUSTRALIA
- TASMANIA





The Future of Clean Heat

A low-carbon
revolution for industry

1414 Degrees - Thermal Storage since 2008



A strong history of Innovation

Prototype (2016)

Silicon storage with Stirling heat engine



Storing electric energy
Regenerating 30KW electricity

TESS-IND (2018)

6 MWhth storage coupled to gas turbine



Storing electric energy
Regenerating 180KW electricity

GAS-TESS (2019)

Biogas powered 6 MWhth storage coupled to gas turbine
Installed at SA Water's Glenelg WWTP



Burning & storing biogas energy
Regenerating 180KW electricity on National Electricity Market (NEM)

SiBox[®] Module (2023)

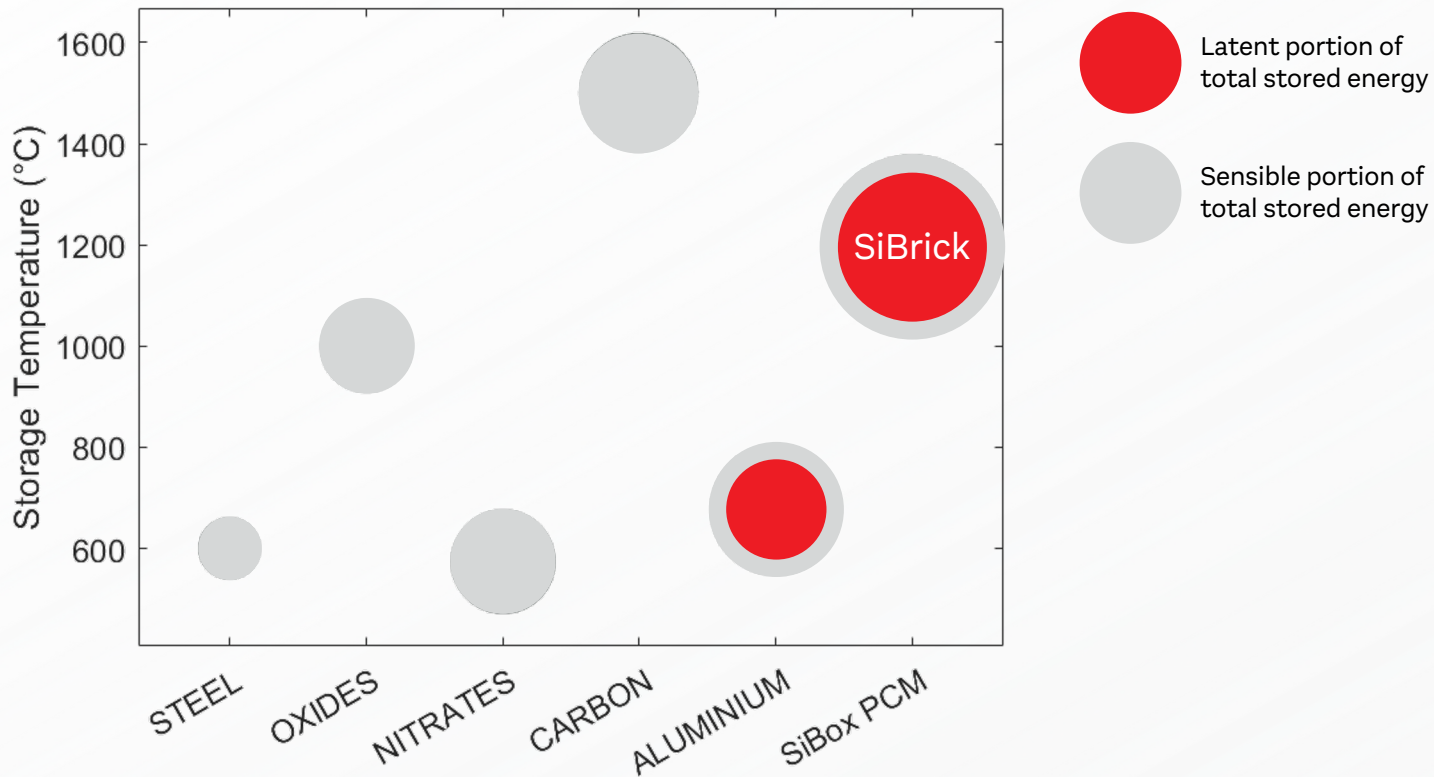
SiBrick storage media outputting up to 900°C hot air



Electric energy to high temperature heat

SiBrick™ Storage

SiBrick™ stores more energy than current technologies



Latent heat storage

Uses of Phase-Change Materials (“PCM”). PCMs store and release thermal energy during phase transitions (like melting and freezing) while maintaining a constant temperature, offering high energy storage density with a small footprint.

Sensible heat storage

Systems operate by changes in energy being detectable as temperature variations, meaning heat is delivered at different temperatures throughout their charge/discharge cycles.



SiBrick™: Decarbonising power and industry via continuous heat

15 years of innovation in silicon based latent heat thermal energy storage



1414 Degrees SiBrick™

A mass manufacturable energy storage solution with high energy density and efficiency



Sibox® Hot-Gas Generator

Gas-replacement for all industrial processes up to 900°C

Electricity generation



Next-Generation Electric Reactors

Industrial heat

Hydrogen production



Waste Heat Utilisation

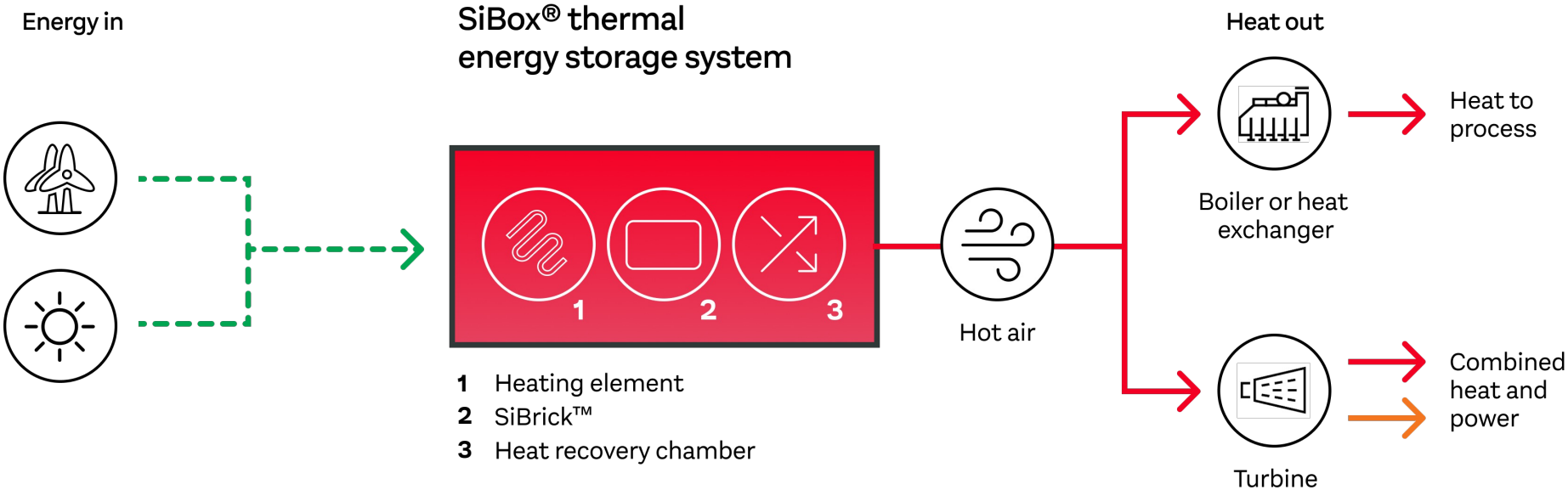
Increase efficiency and reduce process variability with SiBrick™ integration in regenerative furnaces



How SiBox[®] Creates Clean Heat from Renewables for Low Emissions



Current design delivers up to 900°C, constant temperature/flowrate hot air stream for driving industrial processes



Proven long duration energy storage with continuous operation



PART OF
A BETTER
FUTURE



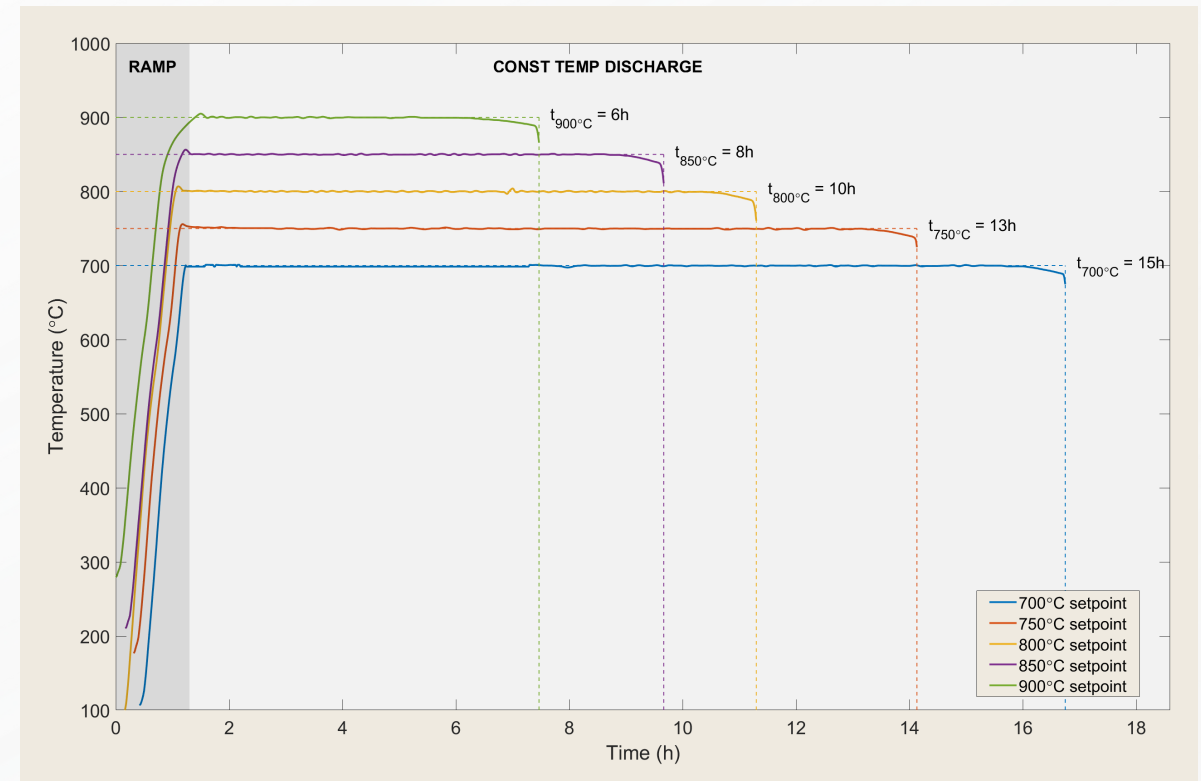
Australian Government

SiBox® Demonstration Module (2023)

AU\$6m project proving long duration high temperature heat supply up to 900°C

Proving SiBrick for commercialisation

Proving scalability - modules can be replicated for GWh of storage



SiBox[®] markets highlight large global opportunity



Alumina Processing



Integration into steam raising, calcination thermal input and feedstock pre-heating

75% reduction in fuel rate and associated emissions

Continuous 24/7 heat

~\$18bn annual energy market

Cement Production



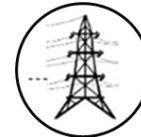
8% decrease in fuel-rate; CO2 and NOx emissions reduction

Reduced process variation due to more precise temperature control

Continuous 24/7 heat

~\$165bn annual energy market

Grid Stabilisation



Long Duration Energy Storage for grid stabilisation

Energy arbitrage, system strength, FCAS provision

Retrofit existing power generators and replace coal

~\$470bn value creation from LDES by 2040 vs. No LDES

Hydrogen and Steel



Integration into thermal hydrogen production and reduction gas pre-heating for DRI route

H2-DRI requires ~72 kg/t-DRI. 32% is required for pre-heating. SiBox heat more efficient and cheaper than H2

~\$5bn annual energy market H2-DRI

Values given are in USD

8 trillion SiBrick opportunity

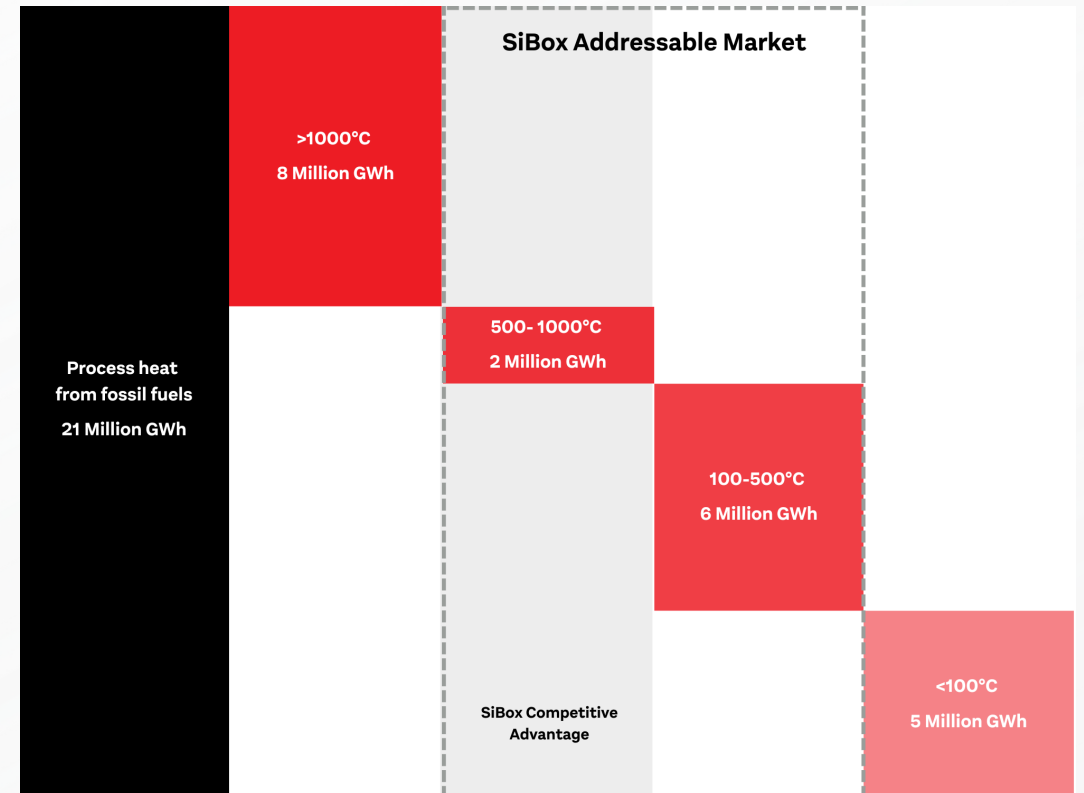


8 Million GWh Market available for decarbonisation by high-temperature energy storage

A total storage market for 8 trillion SiBrick

SiBox addressable market of 8 Million GWh in range 100 - 1000 °C

SiBox competitive advantage in range 500 - 1000°C

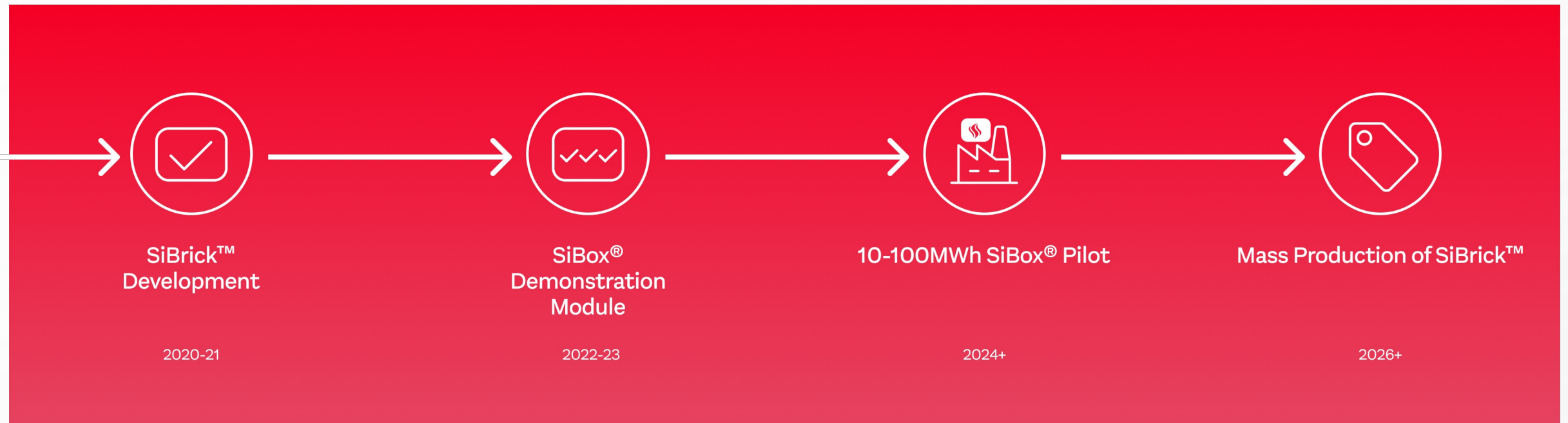


Technology Commercialisation Roadmap



Building on over 10 years of R&D
and Technology Development

Revenue Potential from Licensing and Royalty Model





The Aurora Energy Precinct

Near term
cash flow potential

Aurora Energy Precinct 140MW Battery Energy Storage System (BESS)



Near Term Cash Flow potential from legacy project with potential for SiBox[®] pilot plant on site

140MW/280MWh battery system on 275kV transmission line connected to NEM

SA Crown land lease with approvals

Electranet own and operate the 275kV line

Requires BHP to agree to share and convert transmission line to dedicated network asset (DNA) – in progress

Application to Connect BESS lodged Oct 2023

Site works targeted to commence early 2024

BESS commissioning targeted to start late 2024

Vast Solar share costs 50:50 and pay \$1.5m to 14D on connection approval

Regulatory approval for 70MW solar PV, grid scale SiBox pilot and Vast CSP generation



Strong project team



Tier 1 Provider*



Owner's Engineer



GPS Consultant

Vice Engineering

Transmission
Network Service
Provider



Integration

FINLAYSONS
LAWYERS

Legal Advisor
(Approvals,
Aboriginal Heritage)

BESS

*Market confidentiality pending final award of contracts

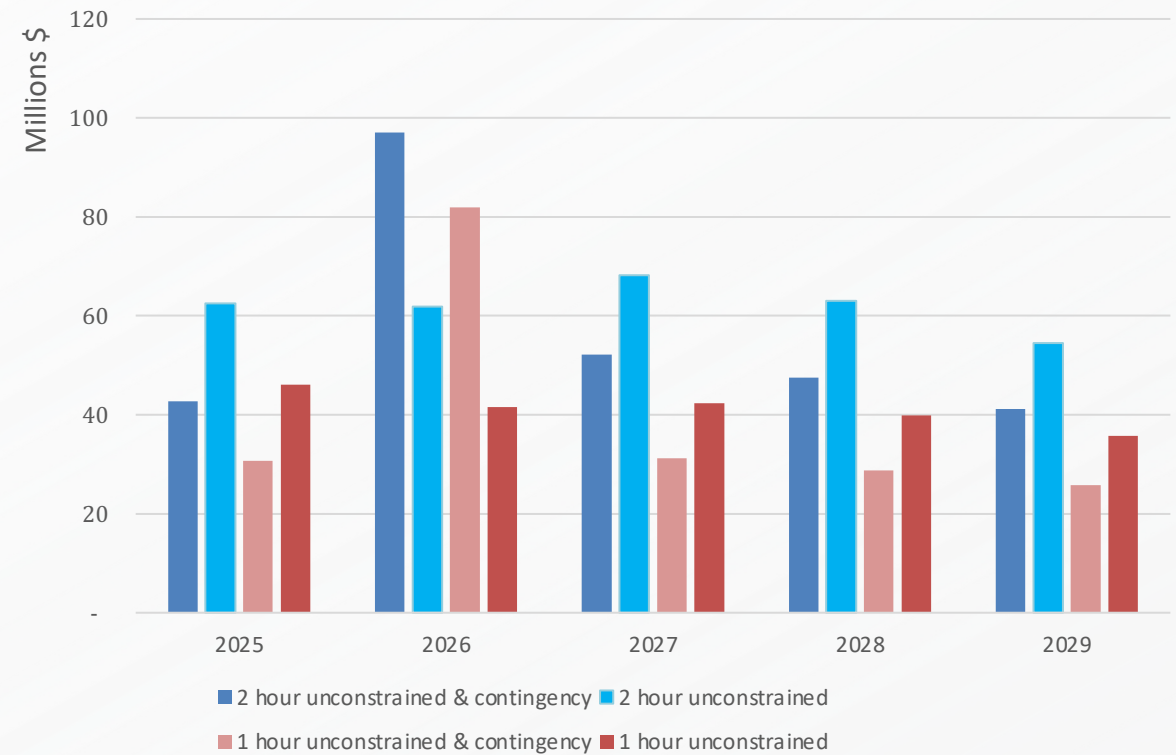
Fast payback projected

Aurora 140MW BESS

20 year project life

Projected* first 5 year net revenues for modelled scenarios 1 and 2 hours of storage

Infrastructure funders and financial advisors engaging on business case



*Projections by Cornwall Insight in 2021.



The Power of Change

Experienced board and management team



Dr. Kevin Moriarty

Executive Chairman

Kevin has over 40 years of mining and oil exploration and development experience and over 30 years of corporate experience in roles including Chairman and Managing Director of listed companies. He founded and led several companies to develop mines in Australia and Africa. He has served as director and chairman of a number of ASX listed companies.



Dr. Mahesh Venkataraman

Chief Technology Officer

Mahesh has 14 years experience in cutting-edge technological research with a strong track record in developing a wide array of renewable energy technologies including thermal energy storage, synthetic fuels, solid-oxide fuel cells, green steel and renewable hydrogen production. At 1414 Degrees he leads our engineering and R&D teams with the key mission to prove the SiBox®/SiBrick™ technologies for commercial use and develop the next generation of efficient silicon energy storage.



Josh Zowtyj

SiBox® Development Manager

Josh is a qualified mechanical engineer who has worked on a wide range of projects across industries including cement, food processing, mining and energy. His experience includes technical design and modelling, performance modelling, economic assessments, feasibility studies, stakeholder engagement and business development.



Graham J. Dooley

Non-Executive Director

Graham is an accomplished Non-Executive Director, Managing Director and Chairman with extensive infrastructure and investment experience. Graham is currently a Non-Executive Director of IWS Group; Senior Advisor with First Sentier Investors, one of Australia's largest institutional investors and one of the top 6 infrastructure investors world-wide; Senior Advisor to Local Government in South Australia and Deputy Chairman of infrastructure start-up Gladstone Goondiwindi Railway Pty Ltd. He is a past national President of the Australian Water Association, a Fellow of the Australian Institute of Company Directors and a Fellow of the Institution of Engineers, Australia.



Randolph Bowen

Non-Executive Director

Randolph is Director and Proprietor of Seppeltsfield Wines and holds directorships with Balthazar Barossa Pty Ltd, Bunyip Water, Duxton Vineyards and Pure Wine Distributors. Previously he was Senior Vice President Global Supply Chain with the Fosters Group. Randolph is a strategic management executive with many years experience. He holds a Bachelor of Applied Science, Winemaking and is a Graduate of the Australian Institute of Company Directors


1414 Degrees outlook

Strongly positioned to capture the large opportunities in fossil fuel replacement

Strong partnerships in manufacturing, R&D and commercialisation with funding support

Investors and governments world-wide mobilising resources to support low-carbon transition particularly in heavy industry

Strong R&D platform aimed at optimisation and efficiency of SiBox® and SiBrick™ technology with continued management of IP Portfolio



SiBox® & SiBrick™

Commercial Business Development ongoing for SiBox® in industry and SiBrick™ with global manufacturer

SDM operating since August 2023 with consistent cycle-on-cycle performance

SDM project completion March 2024

Commercial pilot design CY2024

Woodside earn in decision CY2024



Aurora Energy Precinct

Completion of Aurora BESS study July 2023

Lodged Transmission Connection Agreement (TCA) October 2023

BESS FID June 2024

Transmission Connection CY2024

BESS operational CY2025



Thank you.

We look forward to sharing
further information with you.

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