CLEAN INDUSTRIAL HEAT™

2 June 2023 ASX:14D

INVESTOR PRESENTATION

1414 Degrees Ltd ("1414 Degrees" the "Company") has received significant interest from investment advisors regarding the potential of the Company's technology in decarbonising industrial processes. This interest follows the recent announcement of stable heat flow from the Company's SiBox® Demonstration Module, which showcases the viability of the technology under simulated industrial conditions and serves as a testbed for the innovative SiBrick™ silicon storage media.

Accordingly, the Company has prepared a presentation to provide insights into the Company's technology, its capabilities, and the potential it holds for addressing the challenges of decarbonisation in various industrial sectors.

It is important to note that such presentations are intended to be accompanied by a narrative that offers further context and explanation. Shareholders are encouraged to reach out to the Company directly should they require any clarification on specific points.

AUTHORISED BY:

Dr Kevin Moriarty, Executive Chairman on behalf of the Board of Directors

ABOUT 1414 DEGREES LIMITED

1414 Degrees is an innovative clean energy company focused on the development and commercialisation of thermal energy storage solutions. Its proprietary silicon thermal storage, SiBrick™, is the key component in its SiBox® thermal energy storage solution. SiBox delivers high temperature carbon free industrial heat by harnessing silicon's extremely high latent heat capacity. This enables intermittent renewables to provide flexible, ultra-high temperature heat 24/7 for large industrial applications.

The Company commissioned a module of the SiBox technology in 2023 to accelerate the commercialisation of its silicon storage media as a competitive clean energy solution.

In 2019 the Company made the strategic purchase of the Aurora Energy Project (AEP) located near Port Augusta, South Australia. The project is a long-term renewable energy initiative to deliver reliable electricity to the region and National Electricity Market. The AEP has approval for 14D to pilot and demonstrate a large commercial scale version of the SiBox technology.

For more information, please visit www.1414degrees.com.au

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THE FUTURE OF CLEAN HEAT

A low-carbon revolution for industry

JUNE 2023

SIBOX™ TECHNOLOGY

14 14°

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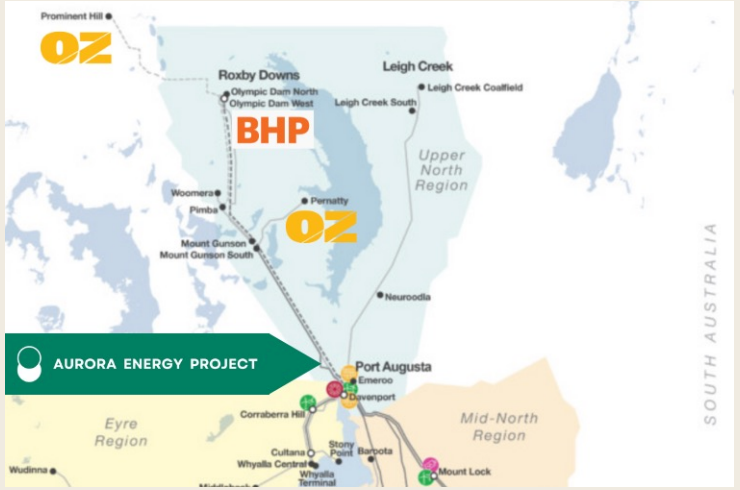
This presentation contains information which was reported in ASX announcements which can be viewed online at https://1414degrees.com.au/.

Certain statistical and other information included in this presentation is sourced from publicly available third party sources and has not been independently verified.

1414 DEGREES LTD

- **Gas replacement** technology to electrify industrial processing
- Efficient **thermal energy storage** for reliable heat supply
- Multi-disciplinary team of technical specialists
- Listed on ASX in Sep 2018 (ASX:14D) >3500 shareholders
- Dedicated workshop for **silicon** storage media R&D backed by strategic industry and university collaborations to access specialised skills and experience
- Agreements with high calibre companies for the **commercialisation** and manufacture of SiBox® and SiBrick™
- Significant net revenue potential from proposed 140MW battery on 275kV transmission line at Aurora Energy Project from 2024
- Refreshed board of experienced invested directors: *Kevin Moriarty; Graham Dooley; Randolph Bowen*



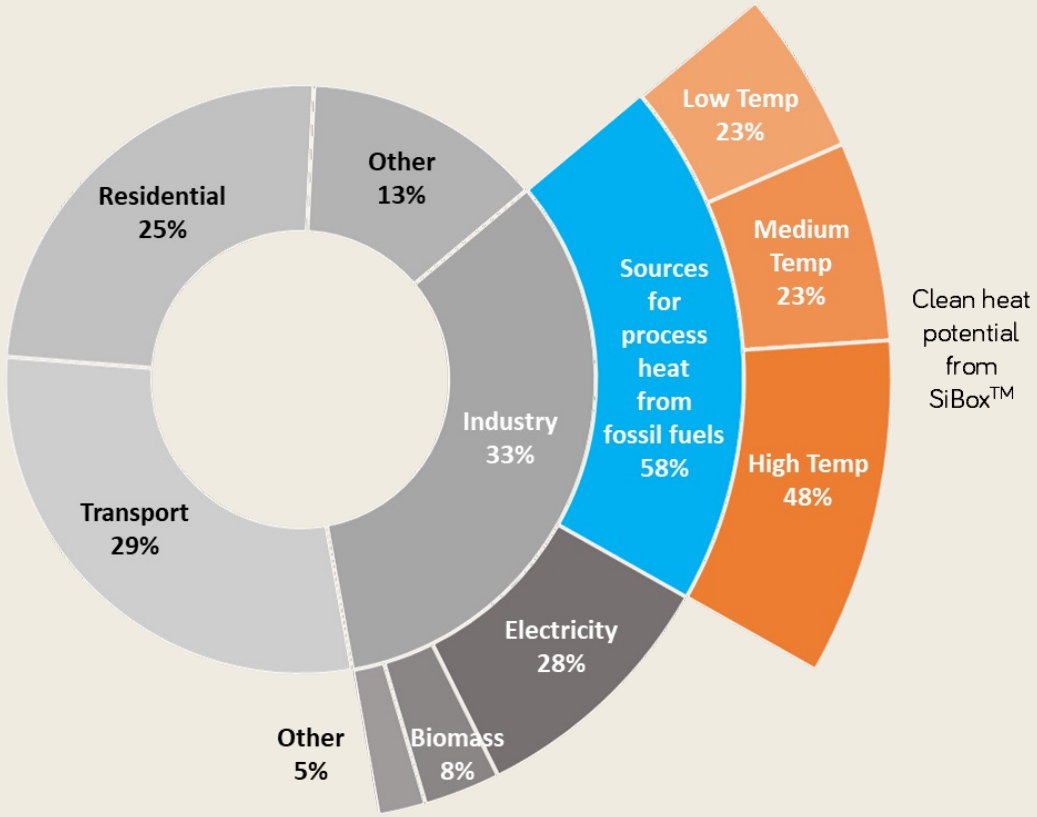
Woodside Energy

Australian Government

LDES LONG DURATION ENERGY STORAGE COUNCIL

HILT CRC Heavy Industry Low-carbon Transition

OUR MARKET IS HIGH TEMPERATURE INDUSTRIAL HEAT



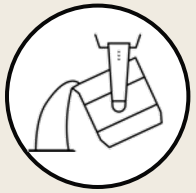
Total global final energy consumption (~400 Exajoules)

- McKinsey & Company estimate **long duration energy storage,** including thermal, would produce energy savings of US$540 billion per year
- High temperature industrial heat has **no commercial options** to stop the use of fossil fuels
- 14D's **silicon** technology is the most advanced storage technology able to replace fossil fuels at temperatures over 800°C

20% of global energy-related CO_2 emissions stem from industrial heat
i.e. excluding electricity
www.iea.org/reports/industry

DECARBONISING HIGH TEMPERATURE PROCESS HEAT

Cement
- 4.1 Billion tonnes produced in 2022
- 4,300 TWh of energy required
- 27% of world's industrial CO_2 emissions
- $160 billion annual energy costs



Alumina
- 140 Million tonnes produced in 2022
- 440 TWh of energy required
- 0.2% of world's industrial CO_2 emissions
- $15 billion annual energy costs

Iron and Steel
- 1.9 Billion tonnes produced in 2022
- 10,000 TWh of energy required
- 29% of world's industrial CO_2 emissions
- $220 billion annual energy costs

~$400 billion annual energy costs in just these three industries

Criteria for clean INDUSTRIAL heat

Ultra-high temperature

Flexible operation
Power, temperature

Robust 24/7 operation
20+ years lifetime

Modular, scalable storage
Suitable for GWh scale

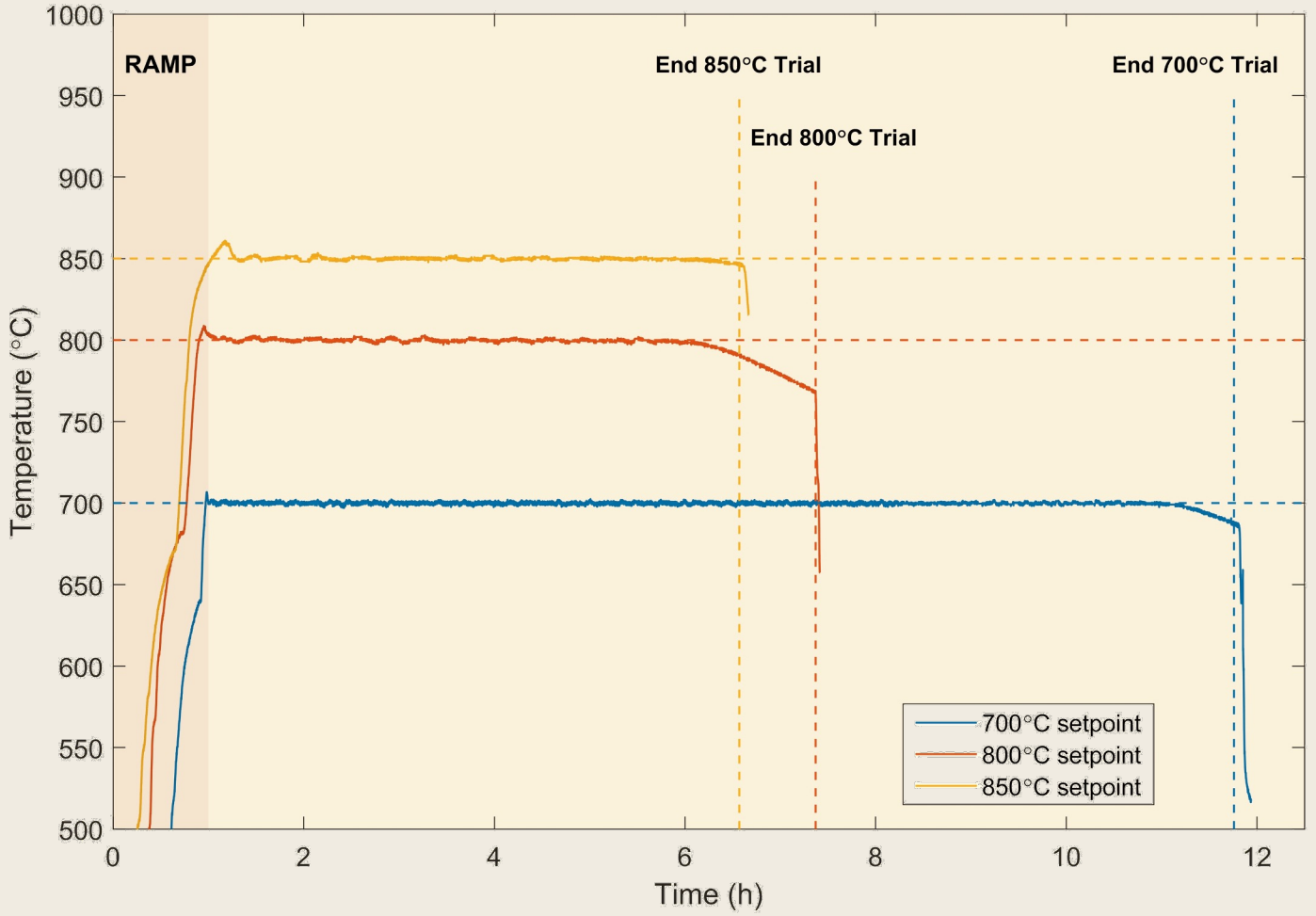
Location independent
Easy integration

High efficiency
Low cost

PROVING PERFORMANCE WITH SIBOX DEMONSTRATION MODULE

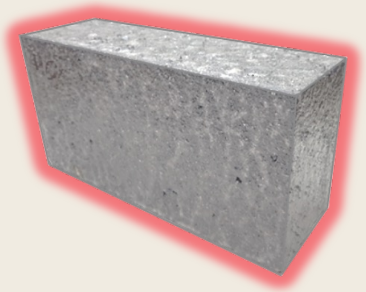
Compact storage delivers big result for industrial processing

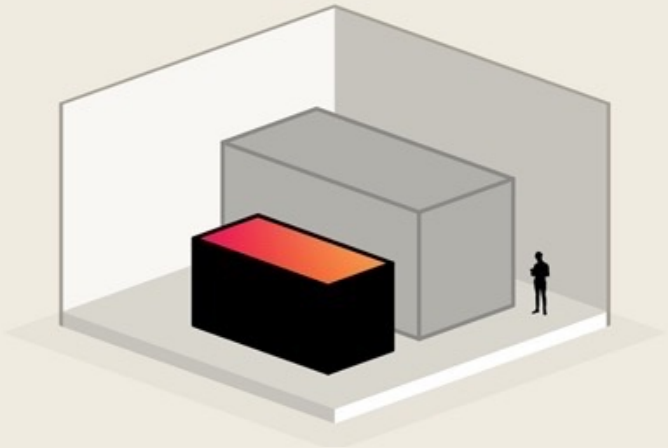
- ✓ Trial runs used stored heat only
- ✓ Latent heat of silicon provided stable air output at 800ºC for 5 hours without control system
- ✓ With control system:
  - ✓ 11 hours of very stable output at 700ºC
  - ✓ >6 hours very stable output at 800ºC
  - ✓ 6 Hrs at 850ºC
- ✓ Scale up of storage will provide longer duration at higher temperatures



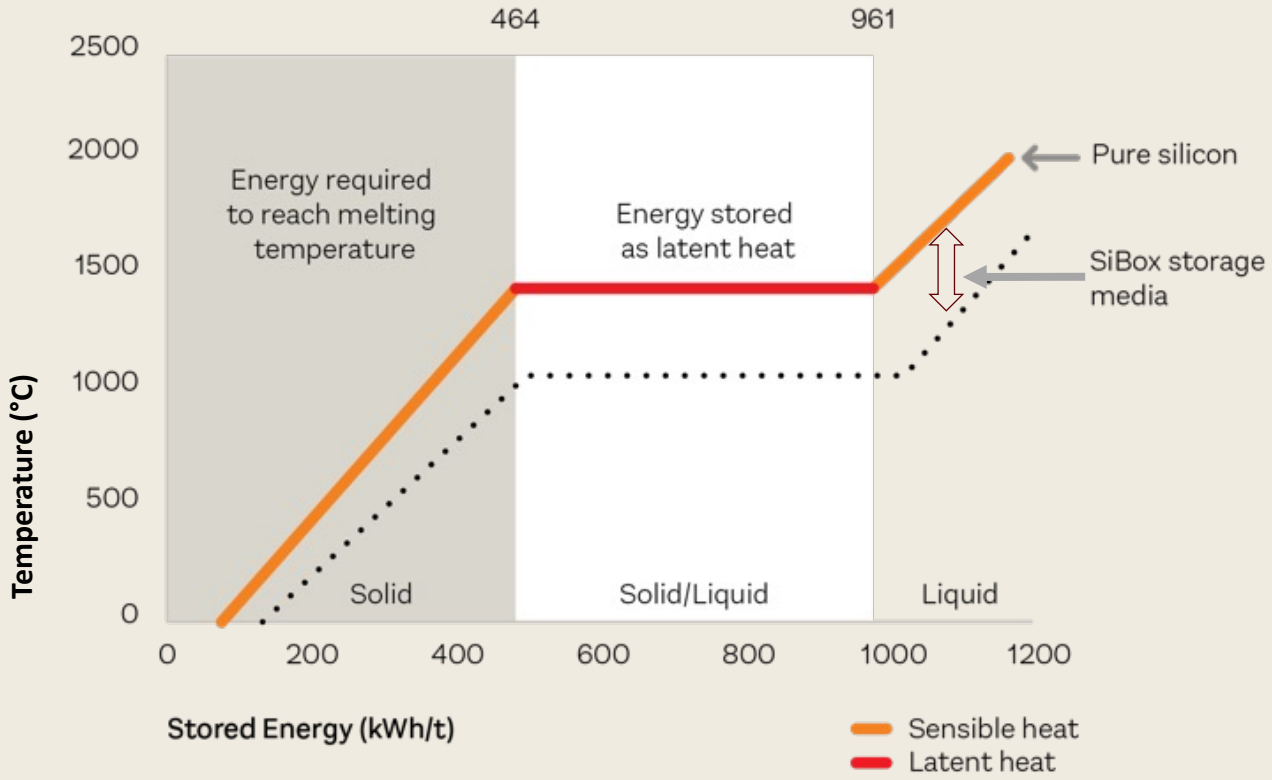
THE SCIENCE OF SILICON

SiBrick™ harnesses the high temperature latent heat of silicon, to convert renewable electricity to zero-carbon heat for high temperature industries



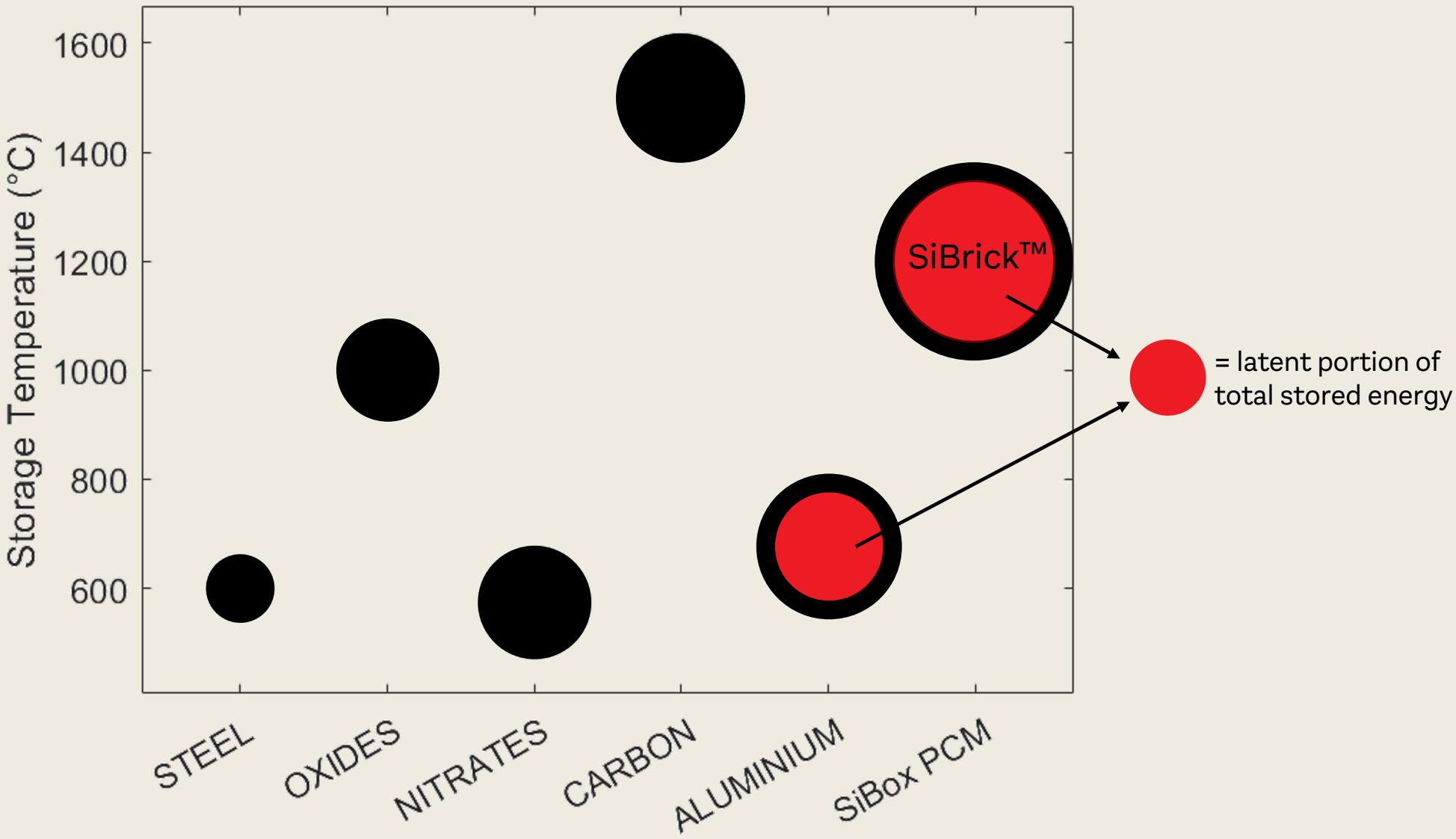


SiBox® energy storage vs sensible heat storage



Silicon's latent heat is key to stable high temperature heat supply and high density energy storage

SIBRICK OUTPERFORMS FOR THERMAL STORAGE



SIBOX IS COMPETITIVE WITH FOSSIL FUELS

SiBox for gas replacement

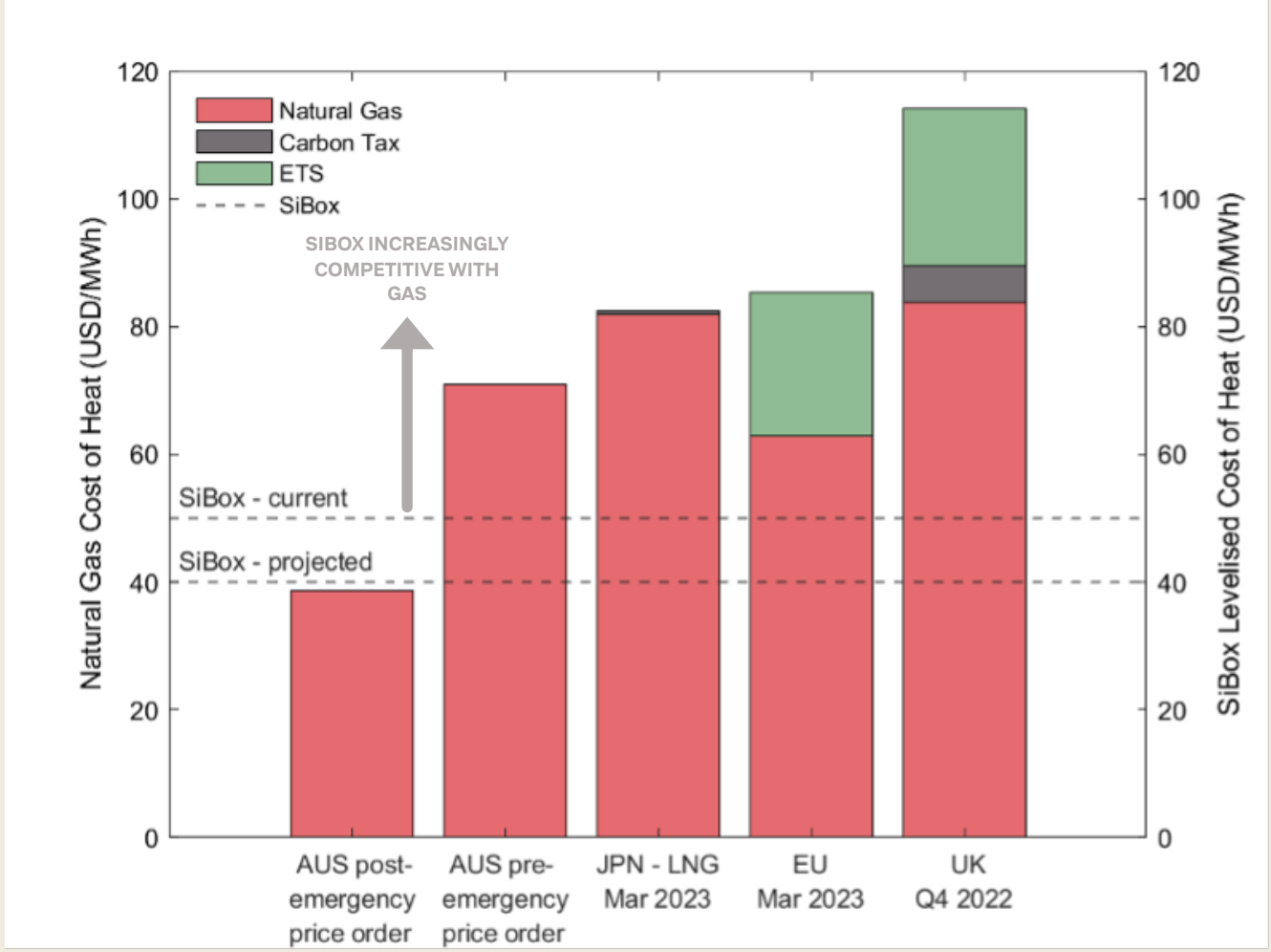
Stable high temperature air supply

Can charge and discharge simultaneously and independently

Can be programmed to charge from electricity when prices are low to reduce energy cost

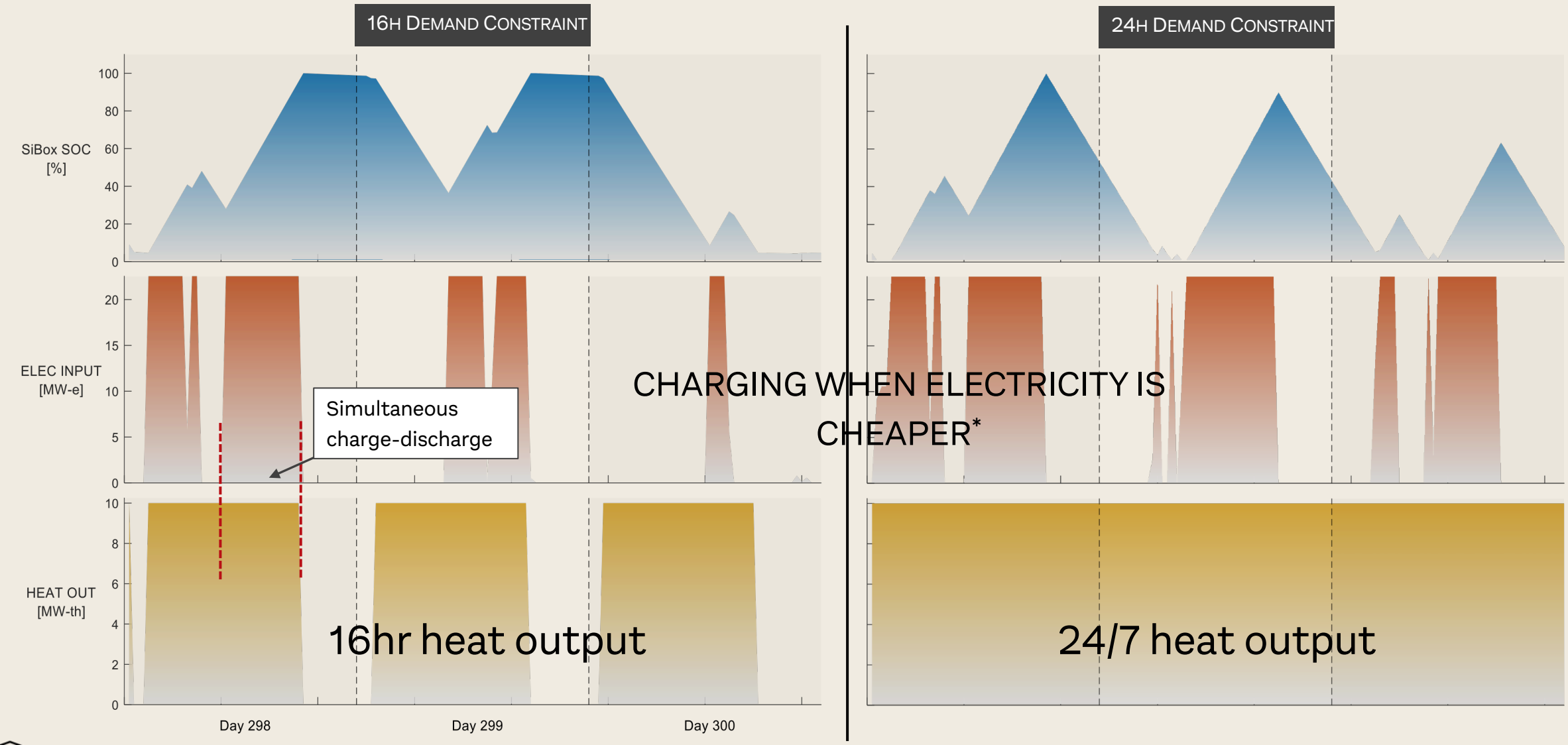
Enables industries to maintain process function at lower cost

Cost competitive on the basis of gas price in EU & Japan, and will become more so in future as SiBrick™ technology advances



SiBox levelised cost of heat (LCOH) versus costs of natural gas (including efficiency losses).
Note: gas operating overheads (Opex) and gas Capex are not included in gas cost whereas Opex and Capex are factored into SiBox LCOH.

SIBOX: DECOUPLED CHARGE-DISCHARGE GIVES FLEXIBILITY & COST CONTROL

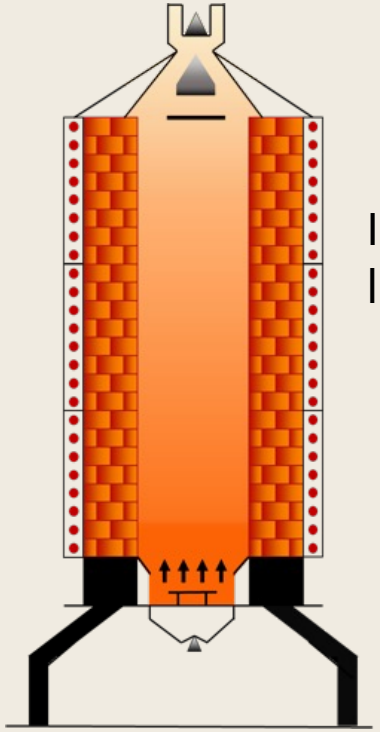


*Example from Australian NEM

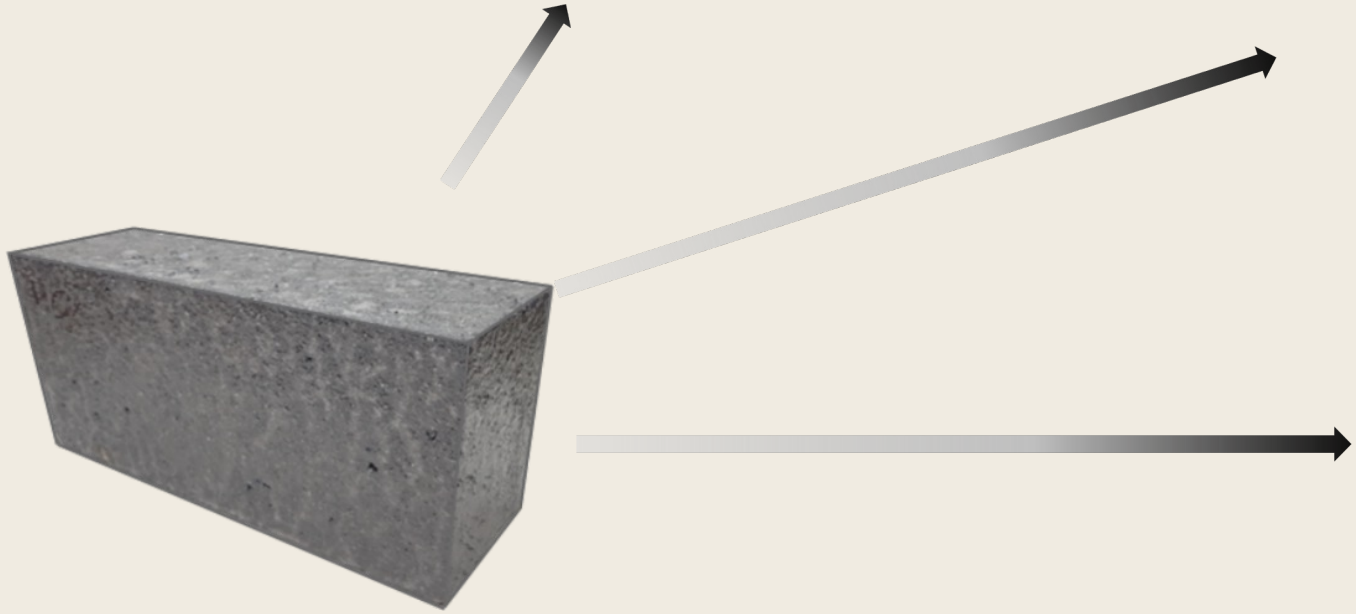
SIBOX™ TECHNOLOGY

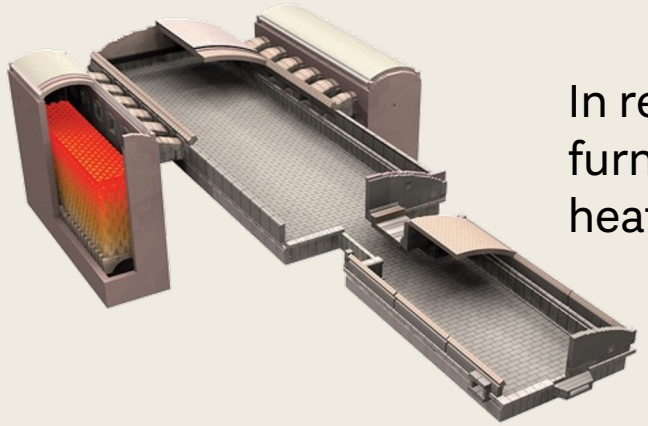
USING SIBRICK TO ELECTRIFY INDUSTRIAL PROCESSING

In SiBox hot gas generator for industrial processes



In novel electric reactor lining with storage





In regenerative furnaces for heat recovery

Regenerative Furnaces – Side Port (Cross-fired), Tecoglas.

SIBOX DEMONSTRATION MODULE

— 1 MWh thermal storage device commissioned 2023

— Electric elements store heat in wall of bricks

— Delivers stable hot air supply at set temperatures ranging up to 900°C

— Design prioritises access to storage media bricks. Commercial scale >90% efficient

— Features a single SiBrick module. Can replicate horizontally for commercial scaleup to GWh

Demonstrating an operational device to industry

TECHNOLOGY COMMERCIALISATION PARTNERS

Global refractory brick market of ~1.3 trillion bricks per year

TOP-TIER REFRACTORY MANUFACTURER

- Refractory manufacturer develops, manufactures, and installs high-grade refractories for high-temperature industrial processes
- Systems supplier offering customised and all-inclusive refractory solutions for all major industrial sectors
- Since 2019 has partnered with 1414 Degrees to develop and commercialise silicon storage media
- Has first rights to manufacture 1414 Degrees storage media
- Storage media IP owned by 1414 Degrees
- Manufacturing process IP owned by refractory maker

Global market for high temperature heat energy is >$400 billion in just three industries. Mostly supplied by fossil fuel.

Emissions reduction using SiBox long duration energy storage can be cost effective in supplanting fossil fuel

WOODSIDE ENERGY TECHNOLOGIES

- Woodside Energy Ltd is a global energy company aiming to provide low cost, lower carbon energy
- Since 2021 has partnered 1414 Degrees to develop and commercialise SiBox® technology
- Stage one: Woodside co-funding SiBox Demonstration Module with Australian Government -$4.2m in grants
- Stage two: Woodside can earn up to 49% of IP by funding SiBox commercial scale pilot
- Silicon media IP to be in SPV with Woodside. 14D responsible for commercialisation but Woodside have preferential price

PROJECTED TECHNOLOGY COMMERCIALISATION TIMELINE

2007

2020 - 21

Brick Development

400 Bricks

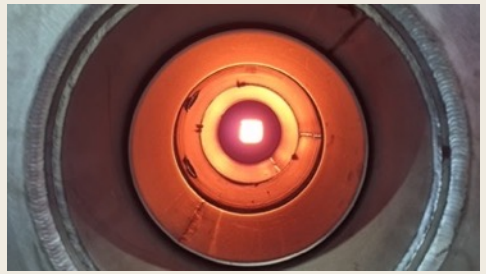
2022

SiBox Demonstration Module

400 Bricks

2023

SiBox Testing



4000 Bricks

2024+

10-100MWh SiBox Pilot

100,000

2025+

Mass Production of SiBrick

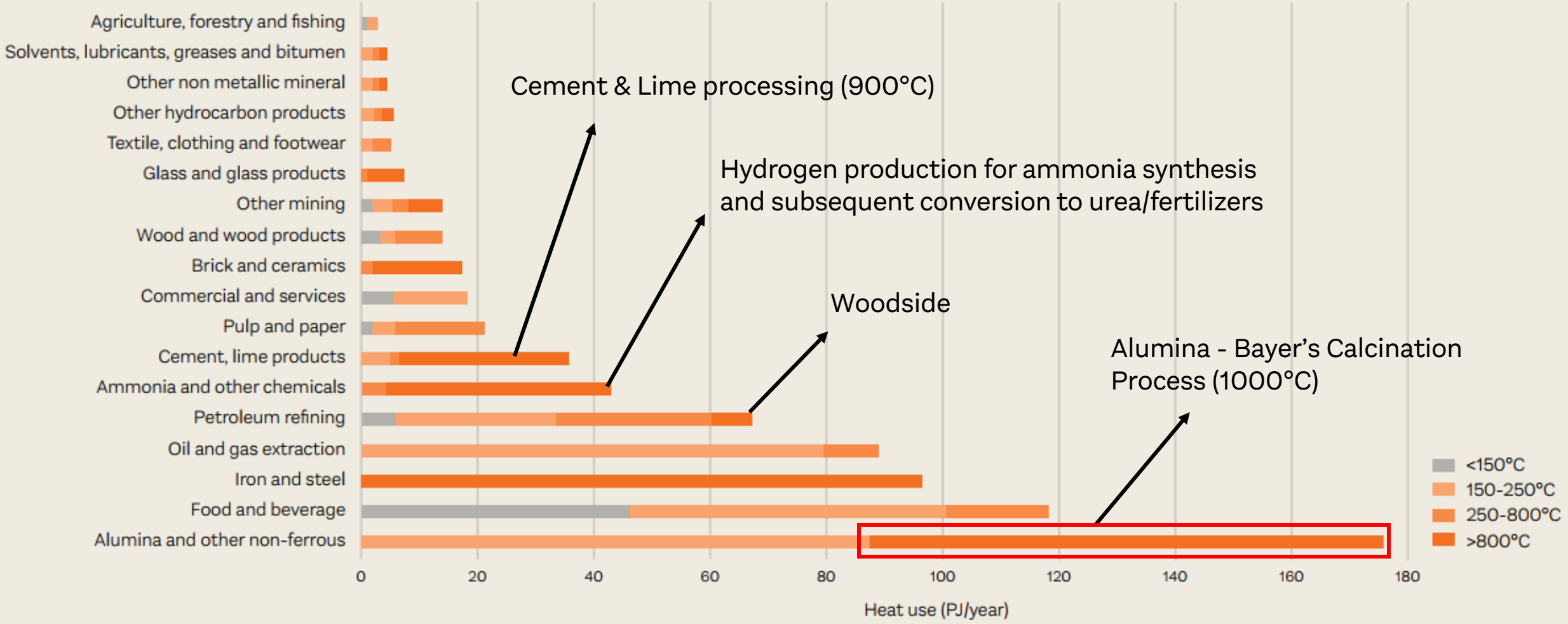
400,000 +

2028+

GWh Commercial SiBox

HIGH TEMPERATURE CLEAN HEAT APPLICATIONS ARE SIGNIFICANT

High Temperature Applications [>800°C]



Source: ITP Renewable Energy Options for Industrial Process Heat, November 2019

A HUGE MARKET IS OPENING TO LONG DURATION ENERGY STORAGE

SiBox will initially target three industries with energy costs exceeding $400 billion

SiBox can increase their production efficiency

SiBox can reduce emissions by displacing a share of fossil fuel use in existing plants

SiBox will make other energy transition technologies more feasible, technically and economically

SiBox can go to market in realistic but valuable steps

SiBox efficiency gains and fuel displacement can save industries billions while achieving emission reduction targets

AURORA ENERGY PROJECT

Near term cash flow potential

AURORA ENERGY PROJECT 140MW BESS

140MW 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)

BESS timing dependent on DNA agreement

Generator Performance Study complete June 2023

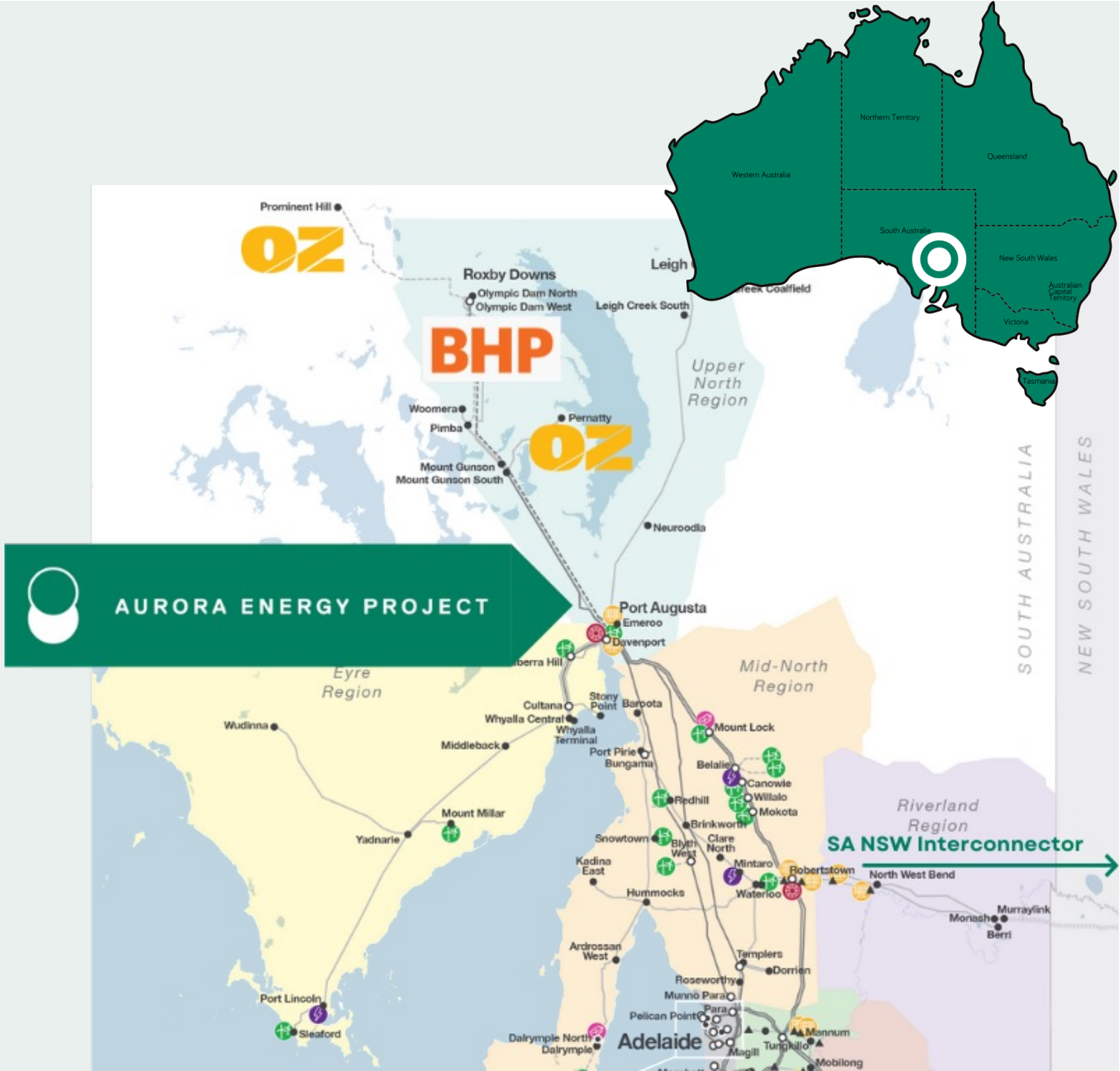
Site works could commence early 2024

BESS commissioning could start late 2024

Vast share costs 50:50 and pay $1.5m to 14D on transmission agreement

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

AURORA ENERGY PROJECT



AURORA ENERGY PROJECT

STRONG PROJECT TEAM

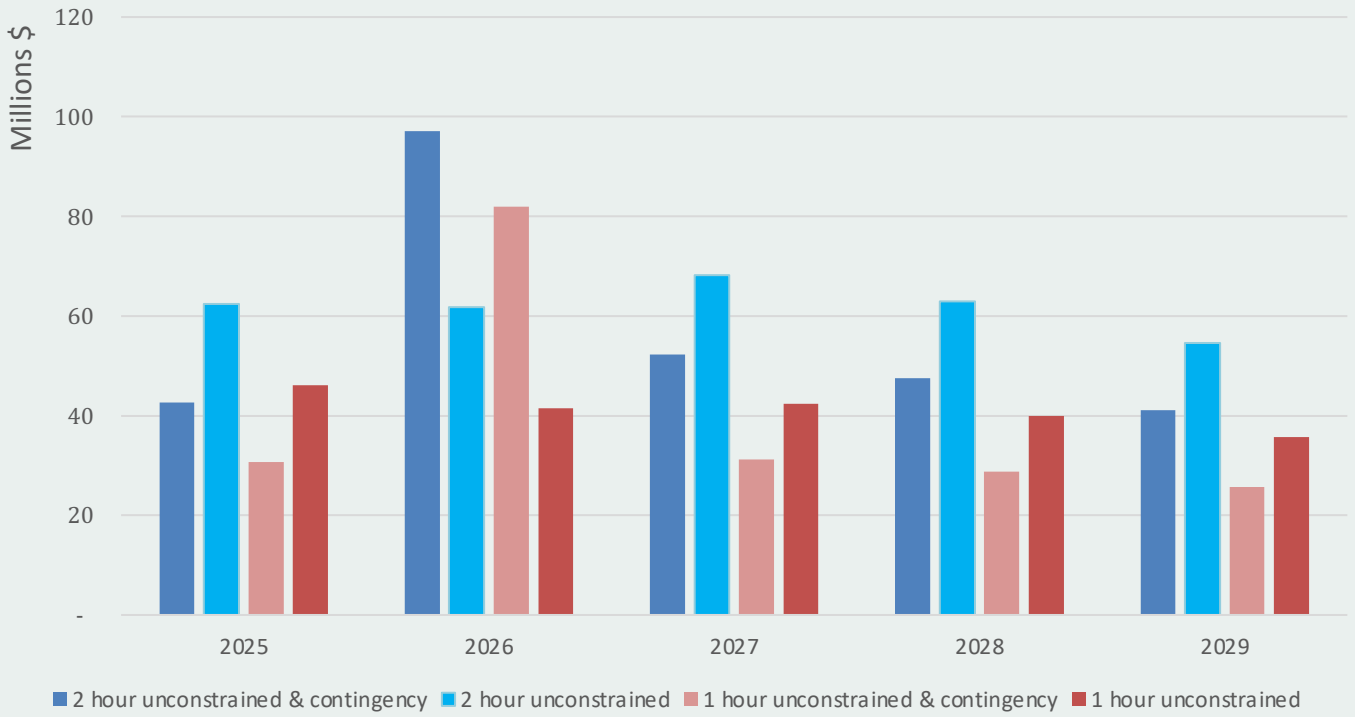
BESS	Tier One Provider *
Owner's Engineer	Emanden Technical Solutions
GPS consultant	AECOM
Transmission Network Service Provider	ElectraNet
Integration	Vice Engineering
Legal Advisor (Approvals, Aboriginal Heritage)	FINLAYSONS LAWYERS

*Market confidentiality pending final award of contracts

FAST PAYBACK PROJECTED

Aurora 140MW BESS

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



****Projections by Cornwall Insight in 2021. To be updated in 2023***

THE POWER OF CHANGE

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