



INVESTOR PRESENTATION

AGM 2025

___ Heat. ___

___ Hydrogen. ___

Battery materials. ___

One silicon platform.

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1414 DEGREES OVERVIEW

One platform, _____
many clean energy wins _____

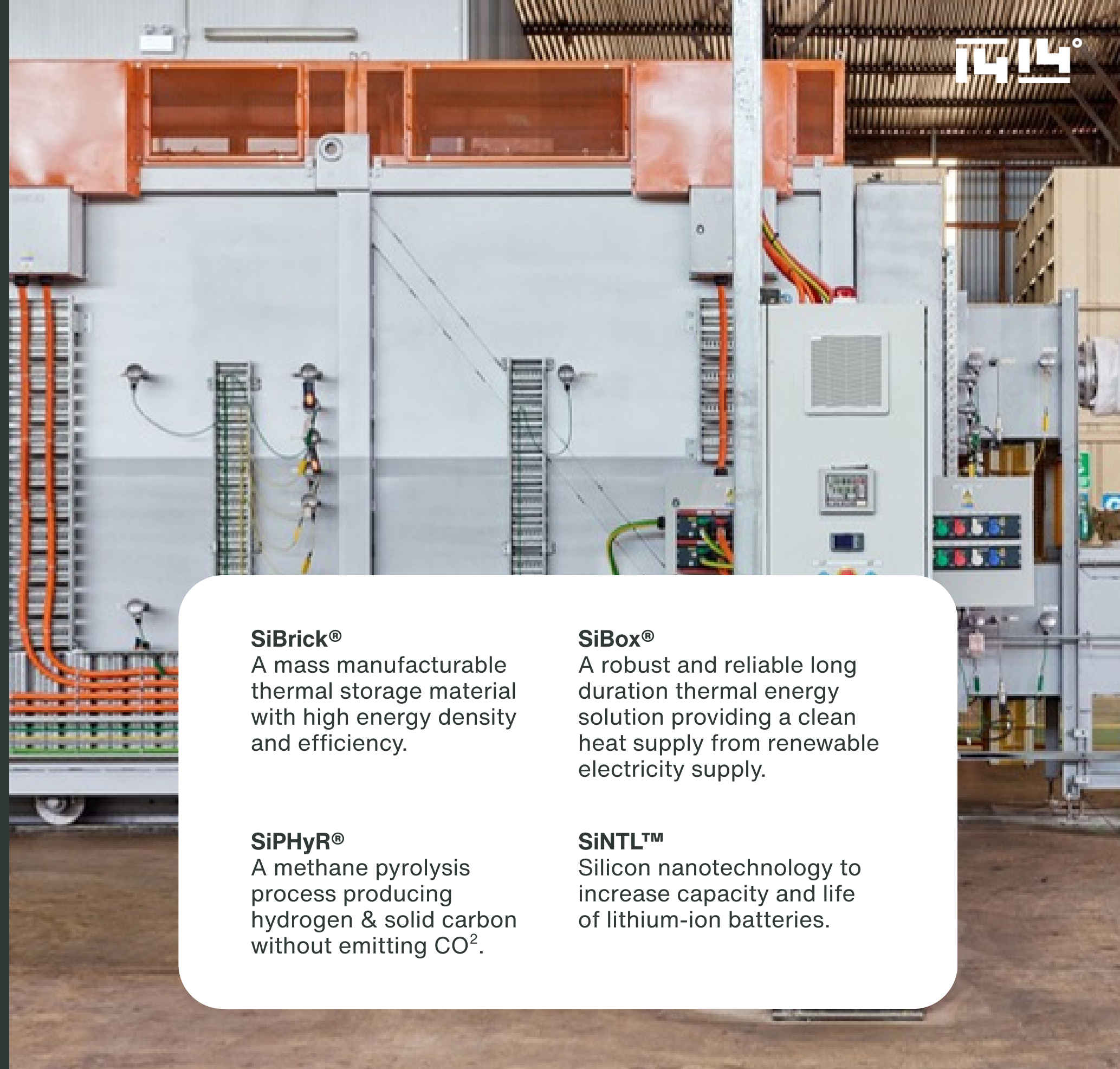
1414 Degrees is an Australian clean energy technology company delivering scalable and practical solutions for industrial decarbonisation and energy storage.

Our mission is to enable efficient, low-cost energy solutions through innovative energy storage and hydrogen production technologies, providing reliable, flexible heat and power.

We have developed a portfolio of proprietary silicon-based technologies, SiBrick, SiBox, SiPHyR and the newly acquired SiNTL nanotechnology, forming the foundation for high-efficiency heat, hydrogen and battery systems that support the global energy transition.

Aurora Energy Precinct is a fully approved site enabling 1414 Degrees to progress commercial projects such as the 140 MW / 280 MWh BESS and future SiBox deployments, forming a key part of the Company's long-term commercialisation strategy.

Through our bespoke clean-energy solutions and Heat-as-a-Service model - developed to accelerate customer adoption of our silicon-based technologies by removing upfront capital barriers - 1414 Degrees integrates renewable generation, thermal storage, and hydrogen production to deliver reliable, low-emission energy on demand, positioning the Company as a leader in industrial decarbonisation and sustainable energy innovation.



SiBrick®

A mass manufacturable thermal storage material with high energy density and efficiency.

SiBox®

A robust and reliable long duration thermal energy solution providing a clean heat supply from renewable electricity supply.

SiPHyR®

A methane pyrolysis process producing hydrogen & solid carbon without emitting CO².

SiNTL™

Silicon nanotechnology to increase capacity and life of lithium-ion batteries.

THE SILICON PLATFORM

One platform, _____
many clean energy wins _____

1414 Degrees leverages its silicon platform advantage to create multiple products from a shared materials-science base:

- High-temperature heat storage and delivery
- Hydrogen and carbon co-products
- Silicon-enhanced battery materials

A unified materials-science base that reduces development risk and enables multiple revenue pathways.

SiBrick® - THE CORE ENABLER

Storing intermittent renewable _____
energy as stable heat _____

SiBrick is our proprietary phase-change material that captures and releases thermal energy with exceptional stability.

It is the foundation of all 1414 Degrees thermal technologies – efficient, durable and stable.

- High energy density
- Proven and reliable
- Enables long-duration, high temperature storage
- Manufactured from abundant, low-cost materials
- Demonstrated stability across thousands of operating hours at high temperatures



SiBox® - CLEAN INDUSTRIAL HEAT

Replacing fossil-fuel combustion with
controllable renewable heat

The SiBox system delivers decarbonised process
heat to industry using stored renewable energy.

- Reliable, cost-effective renewable heat
- Modular design
- Commercial model: Heat-as-a-Service (HaaS)
- Cost-competitive renewable heat that can outperform gas on delivered heat cost



SiPHyR® - HYDROGEN AND CARBON

Turning natural gas into hydrogen and
solid carbon

SiPHyR uses heat from SiBrick to drive methane pyrolysis
- a process that separates hydrogen from carbon without
emitting CO₂.

- Produces low-emission hydrogen
- Generates valuable solid carbon product
- Enabler for green steel
- Integration opportunity with SiNTL™ battery materials



SiNTL™ - BATTERY MATERIALS

Aluminium-coated silicon nanoparticles
for next-generation anodes _____

- Low-temperature synthesis (125 – 180 °C)
- Targeting > 500 mAh/g capacity with stable cycle life
- ~10 × higher theoretical capacity than graphite anodes
- Combining SiNTL nanoparticles with SiPHyR carbon may create silicon-doped carbon anodes in a single step

DELIVERING:

- Higher Energy Density
- Faster Charging
- Longer Cycle Life
- Lighter and Smaller Batteries

14D history with silicon

1414 Degrees - thermal energy storage since 2009

1414 Degrees is a clean energy company which has been delivering scalable solutions using proprietary thermal energy storage to decarbonise industrial heat. These learnings underpin the SiBrick and SiBox systems now ready for commercial deployment.

Prototype

Silicon storage with Stirling heat engine



Storing electric energy
Regenerating 30KW electricity

TESS-IND

Electronically powered
6 MWh_{th} storage coupled
to gas turbine



Storing electric energy
Regenerating 180KW electricity

GAS-TESS

Biogas powered 6 MWh_{th}
storage coupled to gas
turbine installed at SA
Water's Glenelg WWTP



Burning and storing biogas
energy, regenerating 180KW
electricity on National Electricity
Market (NEM)

SiBox Module

1MWh_{th} SiBrick latent heat
battery outputting up to
900°C stable hot air



Electric energy to high
temperature heat

SiBox

Latent heat battery
producing high-grade heat
and steam



Electric energy to high
temperature heat and steam

HEAT-AS-A-SERVICE (HaaS)

Decarbonising industrial heat _____
through a service-based _____
model _____

HOW HaaS WORKS

- 1414 Degrees owns operates and maintains SiBox unit
- Customers pay for heat delivered, not the asset
- Long-term service agreements provide predictable, recurring revenue
- Fully compatible with customer sites without major process changes

WHY IT MATTERS

- Immediate value for customer, no upfront capex for thermal-storage equipment
- Reduces customer exposure to gas price volatility
- Reliable, dispatchable heat that integrates with existing processes
- Immediate pathway to decarbonisation
- HaaS is designed to accelerate adoption by removing upfront capital requirements for customers



AURORA ENERGY PRECINCT

Hyperscale-Ready. _____
Renewable-Powered. _____
Strategically Connected. _____

APPROVALS AND CROWN SPONSORSHIP:

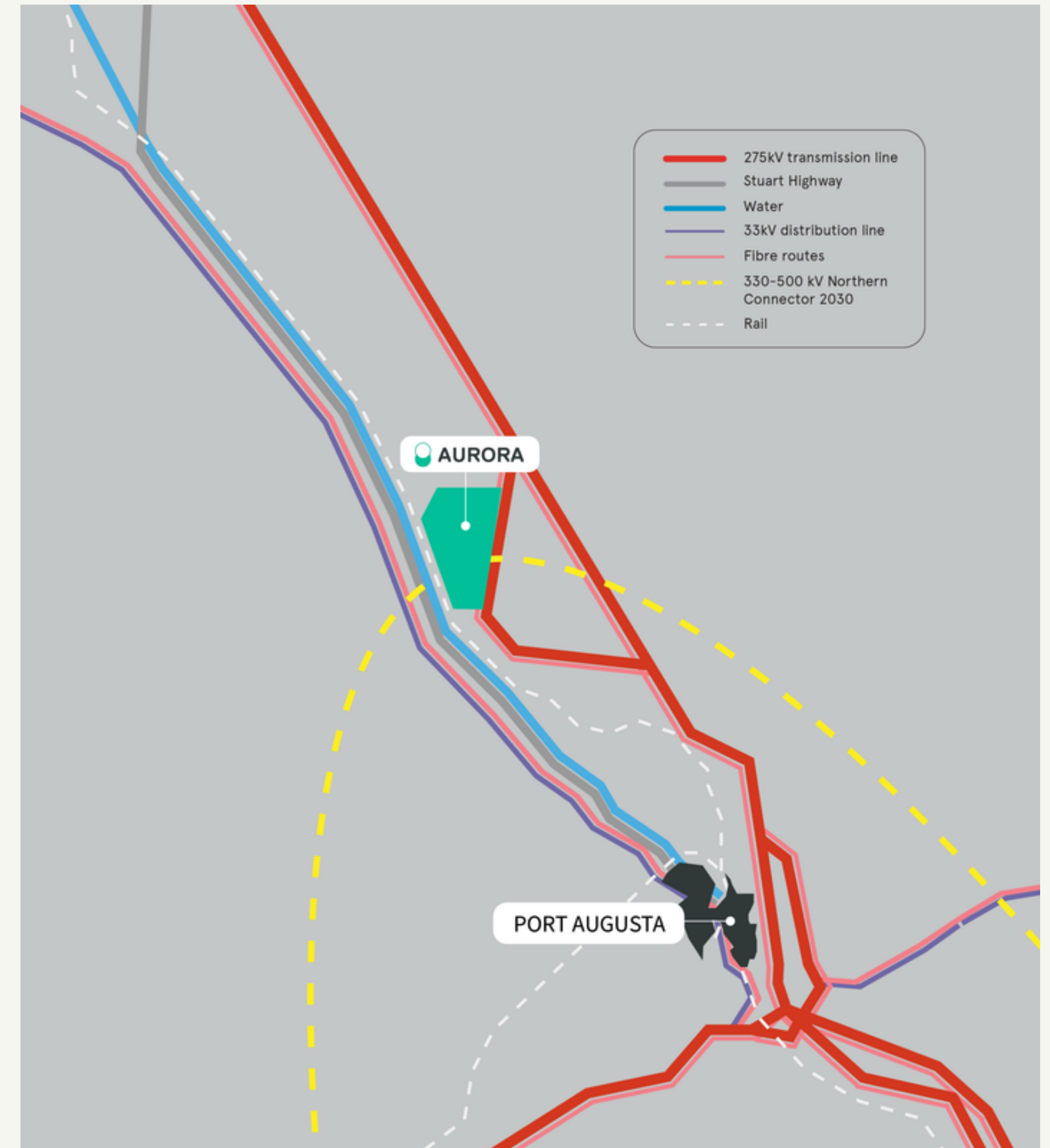
- 140 MW / 280 MWh Battery Energy Storage System (BESS)
- 70 MW solar PV
- Thermal energy storage facilities

STRATEGIC VALUE

- Fully permitted site for commercial deployment of 1414 Degrees' silicon-based technologies
- Crown Sponsorship reduces development risk and streamlines approval pathways
- Platform for future SiBox and SiPHyR projects, and long-duration energy storage solutions
- Potential to host data-centres

LOCATION & POWER

- 15.8km² site within the Upper Spencer Gulf Renewable Energy Zone
- 275 kV line with integrated optic fibre; 33 kV distribution line
- High voltage NTx Northern transmission line scheduled for 2030



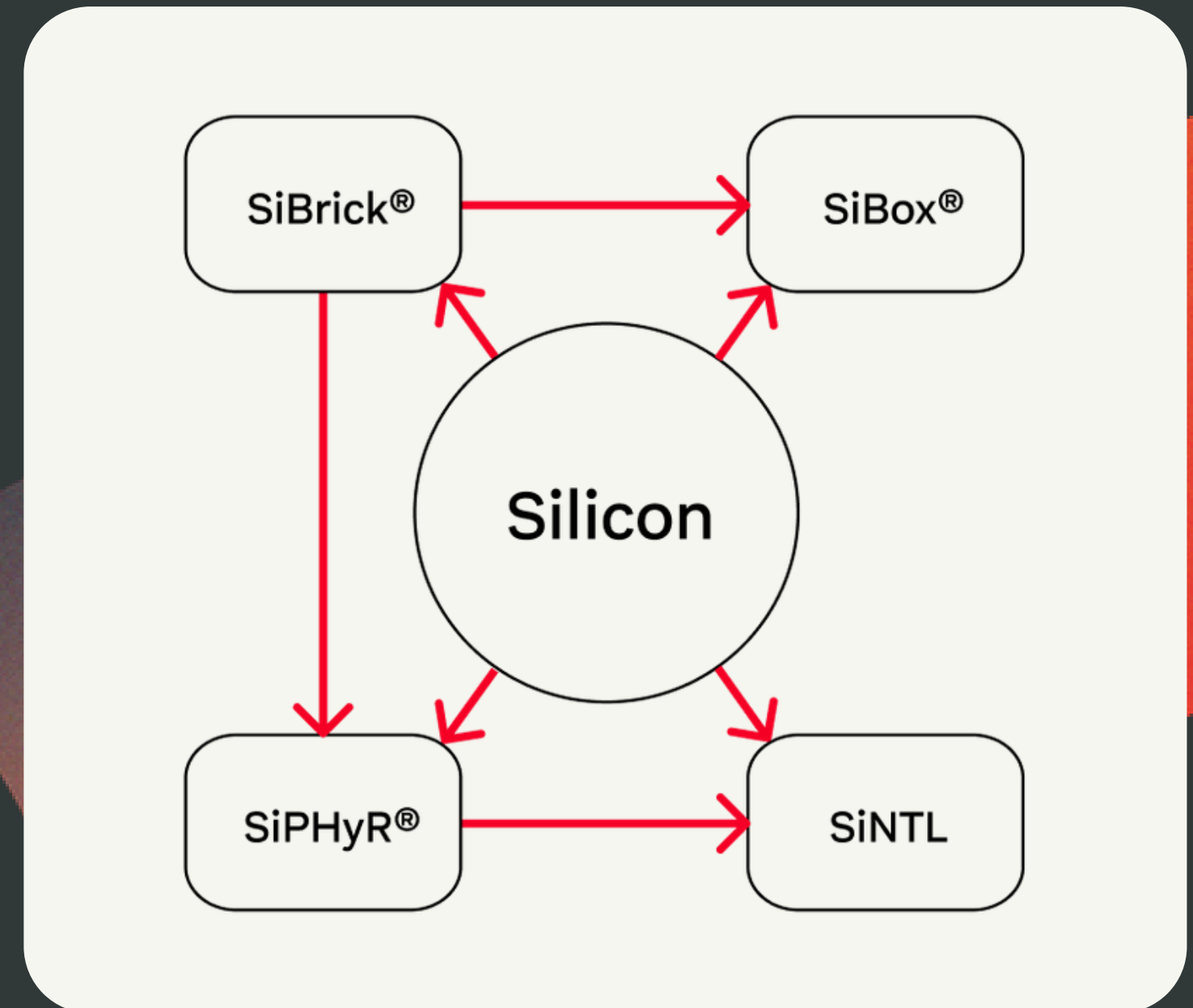
INTEGRATED VALUE CHAIN

From renewable heat to hydrogen
to battery materials

Our silicon technologies form a connected
energy-materials ecosystem:

- SiBrick stores intermittent renewable electricity for reliable heat supply
- SiBox delivers that steady, clean heat to industrial users
- SiPHyR converts gas to hydrogen and carbon using SiBox heat
- SiNTL upgrades silicon and carbon into high-value battery anodes

This integration positions 1414 Degrees to capture value across
heat, hydrogen and battery-materials markets.



COMMERCIAL HIGHLIGHTS

Executing on multiple commercial fronts

AURORA ENERGY PRECINCT

- Progressing 140MW/280MWh BESS
- Ongoing engagement for data centres

SIBOX COMMERCIALISATION

- First commercial deployment under HaaS model targeted

HEAT-AS-A-SERVICE

- Recurring income from industrial customers

HYDROGEN AND CARBON

- Potential revenue from hydrogen and solid carbon co-products

BATTERY MATERIALS

- OEM partnerships for silicon-based anodes



CAPITAL STRENGTH AND COMMERCIAL MILESTONES

STRENGTHENED BY FOCUSED CAPITAL DEPLOYMENT

- \$1.414 m (before costs) from recent placement & Lind
- Funds directed to SiNTL development, Aurora Energy Precinct and ongoing commercialisation
- Cash position supports near-term milestones across the technology suite

POSITIONED FOR REVENUE ACROSS MULTIPLE CLEAN-ENERGY MARKETS

Near-Term Commercial Milestones:

- SiBox commercial deployment under Heat-as-a-Service contract
- Continued engagement with industrial heat customers HaaS projects
- Validation of SiNTL anode material for sale to manufacturers
- Integration trials linking SiPHyR and SiNTL products
- Engagement with potential data centre partners at Aurora



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November 2025

CONTACT

+61 8 8357 8273

info@1414degrees.com.au

1414degrees.com.au

ASX:14D