CLEAN INDUSTRIAL HEAT™

19 September 2025 ASX:14D

SiBRICK PROGRESSING TOWARD MASS PRODUCTION

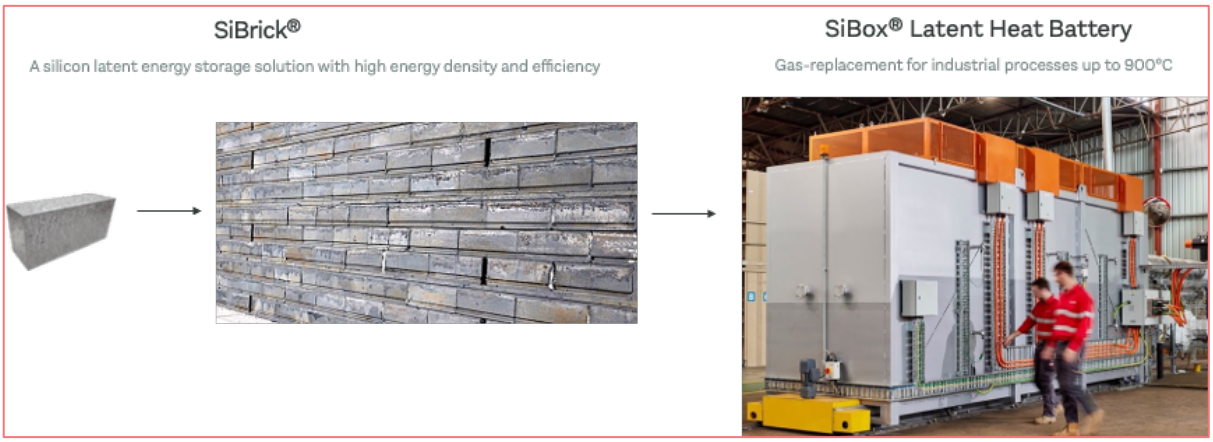
1414 Degrees Ltd (ASX: 14D) ("1414 Degrees" the "Company") is pleased to announce significant progress in advancing two types of SiBrick® storage media toward mass production - one melting at 1100°C and the other at 1400°C. Both variants have maintained their chemical and physical integrity through hundreds of melting–solidification cycles, with further testing underway ahead of production trials in manufacturing facilities.

The 1100°C SiBrick is being developed to power the Company's SiPHyR™ reactor, enabling low-cost hydrogen production using methane pyrolysis. This model has already demonstrated durability through more than 200 cycles between 700-1200°C.

The 1400°C SiBrick is designed for use in ultra-high temperature industrial applications such as alumina calcination and cement production. It has been successfully cycled between 1000-1500°C, demonstrating stability under demanding conditions.

In parallel, 1414 Degrees is developing additional SiBrick variants optimised for integration into its SiBox® long-duration energy storage systems, which deliver stable heat flows within ±2°C across the 200–900°C operating range.

These results strengthen the pathway to mass production of SiBrick, a critical enabler of 1414 Degrees' Heat-as-a-Service (HaaS) business model and hydrogen technologies, creating scalable revenue opportunities as industry transitions to low-carbon energy.



AUTHORISED BY:

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

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ABOUT 1414 DEGREES LIMITED

1414 Degrees is a leader in industrial decarbonisation with its cutting-edge silicon-based solutions, enabling the alignment of energy supply with demand, fostering the widespread adoption of renewable energy. Our key technologies include:

SiBrick®: thermal energy storage technology safely and efficiently stores renewable electricity as latent heat, available for use on demand.

SiBox®: facilitates the transition to sustainable industrial processes, SiBox delivers consistent, high-temperature heat. It can be seamlessly retrofitted into heavy industry processes, offering a viable alternative to conventional energy sources.

SiPHyR™: methane pyrolysis reactor with integrated storage. SiPHyR will produce low-emission hydrogen and solid carbon using renewable energy sources.

1414 Degrees has showcased its capabilities through successful pilot projects that highlight the reliability and effectiveness of its solutions. SiBox has proven its ability to deliver high-temperature air or steam on demand from stored heat. The development of SiPHyR underscores our commitment to innovation and sustainability.

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

Forward-looking statements

This announcement includes forward-looking statements which may be identified by words such as 'anticipates', 'believes', 'expects', 'intends', 'may', 'will', 'could', or 'should' and other similar words that involve risks and uncertainties. These forward-looking statements are based on the 1414 Degrees' expectations and beliefs concerning future events as at the date of this announcement. Forward-looking statements are necessarily subject to risks, uncertainties and other factors, many of which are outside the control of 1414 Degrees, which could cause actual results to differ materially from such statements. 1414 Degrees makes no undertaking to update or revise the forward-looking statements made in this announcement to reflect any change in circumstances or events after the date of this announcement.