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Data Centre Hyper Scalers Evaluating 14D's Aurora Energy Hub

Highlights

- Data centre development for AI attracting major new investment in Australia and globally
- 14D to address growing competition for power supply with its Continuous Energy Hub
- A Continuous Energy Hub firms renewable generation for uninterruptible power supply
- Hyperscale data centre developers evaluating Aurora Energy Hub infrastructure

1414 Degrees Ltd (ASX: 14D) ("1414 Degrees" the "Company") is pleased to announce plans for the Aurora Precinct to host a Continuous Energy Hub to provide firmed renewable power for hyperscale data centres, mining operations, and the National Electricity Market, leveraging its thermal energy storage technology and battery storage systems.

- **Continuous Energy Hub concept:** The Hub integrates solar technologies, lithium-ion battery storage, and 1414 Degrees' SiBox thermal energy storage system to deliver uninterrupted renewable power, supporting critical infrastructure and mining operations to the north.

- **AI data centre investment:** There is growing global investment in hyperscale data centers for AI, with a focus on energy-efficient infrastructure, and the Aurora Precinct aims to attract such developments.

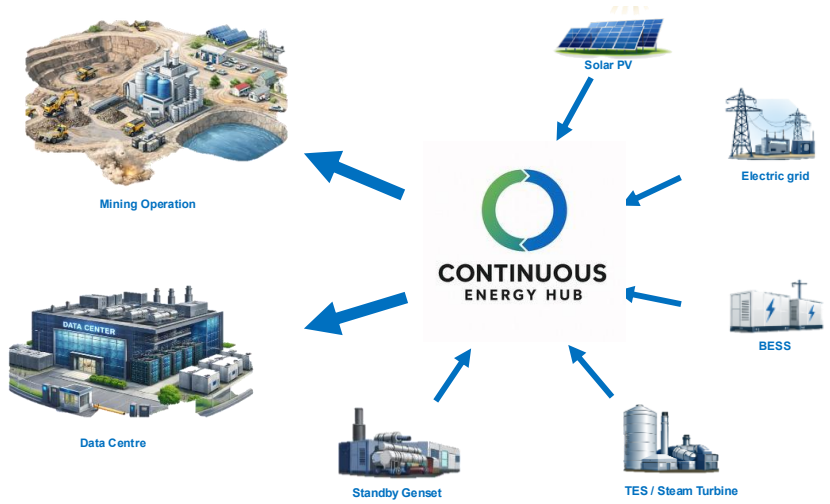
- **Aurora Precinct infrastructure:** The site near Port Augusta benefits from robust infrastructure including highway access, water, fiber optics, and high-voltage transmission, facilitating the Hub's operation and grid connection.

- **1414 Degrees technologies:** The company specializes in silicon-based industrial decarbonization solutions including SiBrick, SiBox, SiPHyR, and SiNTL, with successful pilot projects and a strategic acquisition of the Aurora Precinct to advance large-scale renewable energy initiatives.

The Continuous Energy Hub is a firmed renewable power plant to deliver uninterruptable electricity for Australia's critical infrastructure. The Hub will operate both as a stand-alone power source for on-site customers and as a key asset within the National Electricity Market (NEM), providing consistent, round-the-clock generation from predominantly renewable sources for copper mining to the north, and the NEM to the south.

Leading artificial intelligence companies are making substantial investments in large-scale data centre infrastructure around the world. These initiatives are often undertaken in partnership with major technology and infrastructure firms and aim to expand computing capacity to support the growing demands of AI development and deployment. In regions like Australia, North America, and across the Asia-Pacific, such investments are focused on **developing sovereign AI infrastructure**, enhancing local enterprise capabilities, and ensuring access to high-performance computing resources. Recent industry announcements highlight multi-billion-dollar projects with global reach, reflecting the increasing need for energy-efficient, scalable data centres to power next-generation AI workloads. [1] [2] [3]

Figure 1: Diagram illustrating elements of a Continuous Energy hub



The first **Continuous Energy Hub is being planned for the 15.8 sq km Aurora Precinct**, near Port Augusta, South Australia. In 2020, 1414 Degrees obtained approval for its thermal energy storage system (TESS GRID) allied with a range of renewable technologies.

The Aurora Precinct features robust infrastructure, including highway access, water supply, transcontinental optic fibre, and a high-voltage transmission line. The Continuous Hub unites advanced solar technologies, lithium-ion battery storage (BESS, now doubled to 140 MW with two hours or more of storage), and 1414 Degrees' proprietary SiBox thermal energy storage system, which uses SiBrick media to store and dispatch energy via a steam turbine. Two 100MW gensets will be on standby for periods of demand on the grid and the Continuous Hub.

This unified approach ensures **continuous and firmed power for demanding customers** such as copper mines to the north and for on-site data centres, supporting both business productivity and Australia's clean energy transition. The Continuous Energy Hub exemplifies dependable, renewable electricity supply, capable of operating independently or contributing to the broader grid.

In recent weeks, the Company has expanded the concept to respond to enquiries from data services providers and developers seeking sites to meet AI driven demand for power with infrastructure.

Figure 2: Aurora Continuous Energy Hub concept - impression of data centre with 1414 Degrees TESS, solar PV and BESS, connected to the NEM via the 275kV transmission line powering mines to the north of the Aurora Precinct.

Source Data

1. OpenAI's **Stargate** Project (US)
2. Australia **(NEXTDC)** Partnership
3. Global AI Data Centre Investment

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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.

SiNTL™: silicon nanotechnology to increase capacity and life of lithium-ion batteries

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 Precinct (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.