CLEAN SCALABLE ENERGY STORAGE™

6 August 2026 ASX:14D

14D SECURES FAST-TRACK ENTRY INTO SPACE MARKETS VIA ESTABLISHED EUROPEAN SATELLITE MANUFACTURER

Space Industries, Turin, to integrate and qualify SiNTL™ batteries for serial-production satellites

KEY HIGHLIGHTS

- **FAST-TRACKED MARKET ENTRY:** Space Industries, an international aerospace company based in Turin, Italy, will evaluate and integrate 14D's SiNTL silicon-anode battery technology into satellite power systems and, subject to performance outcomes, design SiNTL-enabled batteries into its serially produced satellite platforms and introduce the technology to its European customer and partner network.
- **IN-HOUSE SPACE QUALIFICATION PATHWAY (AIT):** Space Industries provides full in-house Assembly, Integration and Testing at its Stellar Hub facility, among the largest clean-room environments in Europe. This could give SiNTL a direct route to space-representative qualification, integration into real satellite buses, and the flight heritage that satellite primes require.
- **SERIAL, INDUSTRIALISED PRODUCTION DESIGN-IN:** Space Industries is building a serialised, industrial approach to satellite manufacturing, backed by circa €15 million of planned investment to 2030. SiNTL is designed as a drop-in upgrade to existing cell manufacturing, positioning it for repeatable design-in across high-volume satellite production rather than one-off use.
- **COMPLEMENTS 14D'S ORBIT BOY LAUNCH PATHWAY:** The agreement builds on the Orbit Boy program announced on 17 June 2026. Orbit Boy provides responsive launch, in-orbit servicing and access to its space-sector network; Space Industries provides the satellite manufacturing, integration and qualification. Together, the two agreements connect SiNTL from a cell to a qualified, launched satellite.
- **ENERGY DENSITY IS CRITICAL FOR SATELLITE BATTERIES:** Launch cost per kilogram and the inability to replace a battery in orbit place a premium on light, high-energy-density, long-life cells. SiNTL has demonstrated at least 50% greater energy density than traditional graphite anodes (ASX announcement, 28 April 2026), with further capacity gains targeted.
- **EUROPEAN SOVEREIGN POWER-SYSTEM SUPPLY:** Cells qualified and integrated through an Italian satellite manufacturer support a European-built, sovereign power-system narrative for defence, telecommunications and orbital infrastructure customers.
- **BACKED BY GRUPPO COMAT:** Space Industries is owned by Gruppo Comat, an Italian industrial group with decades of expertise in energy systems and advanced facilities and is led by aerospace entrepreneur Giuseppe Santangelo.
- **IP RETAINED, MULTIPLE REVENUE LINES:** Ownership of SiNTL and related intellectual property remains with 14D and George Washington University. Subject to successful qualification and binding agreements, 14D expects revenue from anode material supply, technology licensing, royalties on approved packs or platforms, and recurring supply into serial satellite production.

1414 Degrees Ltd (ASX: 14D) ("1414 Degrees" or the "Company") is pleased to announce it has entered into an agreement with Space Industries S.p.A. ("Space Industries"), an Italian satellite manufacturer, and Orbit Boy Ltd ("Orbit Boy") for a staged program to evaluate, integrate and qualify its SiNTL™ silicon-anode battery technology for use in satellite power systems, with a pathway to design-in across Space Industries' serially produced satellites.

Under the agreement, SiNTL cells and packs supplied by 14D will be characterised and integrated into a representative satellite bus energy-storage system, then progressed through Space Industries' in-house qualification environment toward space-representative testing and, subject to outcomes, design-in for serial production. Space Industries will also introduce 14D and SiNTL to its customers, partners and the wider European satellite supply chain.

This partnership commences 1414 Degrees' entry into Europe's sovereign space and defence markets. Space markets are traditionally close-knit, and it can take many years to build the trust required to qualify and distribute product within the sector. By partnering with two established participants — Space Industries and Orbit Boy — 14D is able to fast-track that entry, materially reduce the effective cost of entering the sector and producing its SiNTL batteries, and, subject to successful testing, commercialise and distribute the final product into an under-serviced European battery market.

Pictured above: With nearly 8,000 square meters of surface area and over 2,500 square meters of Clean Room space, the Stellar HUB of Space Industries is one of the largest satellite integration production facilities in Europe.

Europe currently has very few sovereign space and defence battery manufacturers. 14D intends to be among the first — alongside Space Industries and Orbit Boy — to deliver a fully EU-manufactured, sovereign, long-life space battery for the space and defence sectors. Because Europe's space market is less mature than that of the United States, the barriers to entry for SiNTL, should it prove successful in significantly extending battery life, are expected to be low via this pathway.

Partnering with these groups, together with a battery manufacturer for commercial production, further limits the Company's exposure to significant capital outlay, while giving shareholders exposure to an under-serviced market alongside established industry players.

Space Industries offers:

Satellite Manufacturing Serialised production of smallsats in the 100–500 kg class, Turin, Italy.	+	**In-House AIT & Qualification** Full Assembly, Integration and Testing under one roof for space-representative validation.	+	**Serial Design-In** Drop-in SiNTL cells engineered into repeatable production satellite platforms.	=	**SiNTL in European Satellites** A qualified, sovereign-supply pathway to flight heritage and recurring demand.

STRATEGIC IMPORTANCE

In space applications, battery energy density is a binding constraint. The launch cost per kilogram of payload, together with the inability to replace a satellite's batteries once in orbit, means satellite manufacturers demand maximum capacity and long cycle life from space batteries. A battery failure can render an entire satellite inoperable, putting a premium on light, high-energy-density, long-life cells.

SiNTL raises lithium-ion energy density using silicon-anode material, giving at least 50% more capacity than traditional graphite anodes while remaining compatible with existing battery manufacturing processes. A satellite manufacturer partner converts that material advantage into qualified hardware: Space Industries supplies the satellite platform, the integration capability and the serial demand needed to turn SiNTL from a tested cell into a flying, repeat-order product. The global space battery market is estimated at approximately US$3.4 billion in 2025 and is forecast to grow strongly over the remainder of the decade. Industry forecasts indicate that batteries exceeding 200 Wh/kg are expected to be the fastest-growing energy-density segment, highlighting increasing demand for the high-energy-density battery technologies that SiNTL is designed to enable[1].

TARGET APPLICATIONS

PHASE 1 - SATELLITE BUS POWER SYSTEMS Integration of SiNTL packs into a representative smallsat energy-storage module. Tested for energy density, mass, eclipse cycling and cycle life in low Earth orbit.	**PHASE 1 - IN-HOUSE AIT QUALIFICATION** Assembly, Integration and Testing within Space Industries' clean-room facility, advancing SiNTL toward space-representative qualification and flight heritage.
PHASE 2 - SERIAL PRODUCTION DESIGN-IN Engineering SiNTL-enabled packs into Space Industries' serially produced satellite platforms for recurring, volume supply.	**PATHWAY – EUROPEAN SOVEREIGN SUPPPLY** European-integrated, qualified power systems for defence, telecommunications and orbital-infrastructure customers across Space Industries' network.

European battery manufacturers continue to face supply chain challenges, with many products relying on critical materials, cells or components sourced from Asia, including China. This dependence creates sovereign supply chain risk and can limit the ability to market batteries as fully European-made. The Company in partnership with Orbit Boy are focused on developing a secure, sovereign battery supply chain with greater manufacturing independence and resilience.

Space-grade batteries are among the most specialised and difficult energy storage systems to develop and manufacture. Their operational life is a key differentiator, with many satellite missions requiring batteries capable of reliable performance for 5–15 years or more without replacement. This combination of technical complexity, stringent qualification requirements and limited global supply makes sovereign

[1] Mordor Intelligence, Space Batteries Market – Size & Share Analysis (2025–2030)

space battery manufacturing a strategically important capability for the aerospace and defence sectors and why 14D is targeting this sector with SiNTL.

To achieve its objective of becoming a leading participant in the space battery sector, the Company recognises the importance of partnering with established Tier 1 industry participants that have the technical capability and willingness to undertake collaborative research, development and evaluation programs. These partnerships enable innovative technologies to be validated and refined prior to commercialisation. Consistent with this strategy, the Company has entered into a collaboration with space industries to jointly evaluate and advance next-generation battery technologies, with the objective of progressing to a broader commercial relationship following successful technical outcomes.

"This agreement represents another important step in the commercialisation of SiNTL.

The Orbit Boy agreement established SiNTL's pathway into the space sector. Space Industries is the next step, it doesn't build one satellite, it builds many, off the same line, and to the same design. If SiNTL qualifies, it's not flying once, it's specified into everything that comes off that line afterwards

. That's what made this partner different from the others we looked at, and it's the difference between a qualification test and a repeat customer," said ***1414 Degrees' Executive Chairman Dr Kevin Moriarty****.*

AGREEMENT – KEY DETAILS

1. **Parties.** The agreement is between 1414 Degrees Limited (ASX: 14D), Space Industries S.p.A., and Orbit Boy Ltd. Space Industries is a Turin-based satellite manufacturer producing small satellites up to 700 kg with full in-house Assembly, Integration and Testing. Orbit Boy Ltd organises, coordinates and controls the testing program on behalf of 1414 Degrees, including defining space-application requirements and acting as the primary interface among the Parties.
2. **Purpose.** A staged program to prepare, integrate, test and qualify SiNTL-enabled batteries and battery packs for satellite power systems, beginning with a representative satellite bus energy-storage module and, subject to results, progressing to design-in for serial production.
3. **Technology.** 14D must supply SiNTL silicon-anode cells, packs, specifications and technical inputs for evaluation to initiate the milestone program. SiNTL is developed under 14D's exclusive global licence from George Washington University and is principally directed at high energy density and low mass, the binding constraints in low-Earth-orbit applications.
4. **Primary application.** A space-capable satellite bus and platform energy-storage system engineered to survive repeated charge and discharge cycling through orbital eclipse, where energy density, mass and cycle life are critical parameters.
5. **Qualification and integration.** Space Industries will integrate and qualify SiNTL packs within its in-house AIT environment, providing space-representative testing and a route to integration aboard production satellites for in-orbit validation.
6. **Commercial model.** The collaboration is structured as a milestone-gated qualification and design-in program. No cash consideration is payable by any party for the program. Future

production and supply, licensing and royalties will be covered by separate binding agreements, with SiNTL intellectual property retained by 14D and George Washington University at all times.

7. **Network access and introductions.** Space Industries will introduce 14D and SiNTL to its satellite customers, partners and the wider European space supply chain, including prime contractor, payload, defence and commercial space contacts.

The program runs in six milestone-gated stages:

1. SiNTL sample and cell validation against satellite power-system requirements;
2. laboratory cycling and low-Earth-orbit eclipse testing;
3. battery pack and module build for a representative satellite bus;
4. integration, bench, battery-management and interface testing within Space Industries' AIT facility;
5. environmental and space-representative qualification testing; and
6. final qualification report and assessment of design-in for serial production.

AUTHORISED BY:

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ABOUT SPACE INDUSTRIES

Space Industries (spaceindustries.global) is an international aerospace company based in Turin, Italy, specialising in the production of small satellites up to 700 kg, with a strong focus on the 100–500 kg smallsat segment. The company is pioneering an industrial, serialised approach to satellite production from its Stellar Hub facility, among the largest clean-room environments in Europe, and provides full in-house Assembly, Integration and Testing. Space Industries is owned by Gruppo Comat, an Italian industrial group with decades of expertise in energy systems and advanced facilities and is led by Chief Executive Officer Giuseppe Santangelo.

ABOUT 1414 DEGREES LIMITED

1414 Degrees (ASX:14D) is advancing an integrated clean-energy and industrial decarbonisation platform spanning grid-scale storage, industrial heat, hydrogen and advanced battery materials.

The Company's strategy combines near-term infrastructure revenue with scalable technology commercialisation, underpinned by deep expertise in energy-dense silicon systems and materials engineering. 1414 Degrees owns the Aurora Energy Precinct in South Australia, a development-ready energy and industrial site spanning 16km² within the Upper Spencer Gulf Renewable Energy Zone. Aurora is designed for firmed renewable electricity and co-located high-demand users, with grid access, development approvals and proximity to fibre infrastructure supporting global connectivity. The site is strategically positioned to support data centre operators and other energy-intensive industries requiring reliable, low-emissions power at scale. The Stage 1 140 MW / 280 MWh Battery Energy Storage System (BESS) represents a near-term revenue opportunity, with expansion potential aligned to customer demand.

Core Platforms:

SiNTL™: A silicon-enhanced anode material designed to increase lithium-ion battery energy density while remaining compatible with existing manufacturing processes.

SiBrick®: Silicon-based thermal energy storage media forming the foundation of the Company's long-duration energy storage systems.

SiBox® (Industrial Heat-as-a-Service): Long duration energy storage technology that converts low-cost renewable electricity into dispatchable high-temperature heat, supporting industrial decarbonisation across energy-intensive sectors.

SiPHyR®: A silicon-based methane pyrolysis reactor integrating thermal storage to produce low-emissions hydrogen and solid carbon using renewable energy sources.

1414 Degrees' technologies are unified by a single materials platform — leveraging silicon to store, convert and enhance energy across multiple sectors.

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.