ASX ANNOUNCEMENT

16 January 2025

Sparc Hydrogen Secures First Patent

HIGHLIGHTS

- **First patent granted on Sparc Hydrogen's exclusively licensed photocatalytic water splitting reactor technology**
- **Key milestone which provides intellectual property protection for Sparc Hydrogen's innovative technology in Morocco**
- **Morocco is the first patent office out of 18 jurisdictions to review and approve the patent with other offices expected to review in 2025**

Sparc Technologies Limited (**ASX: SPN**) (**Sparc, Sparc Technologies** or the **Company**) is pleased to announce that Sparc Hydrogen Pty Ltd (**Sparc Hydrogen**), a joint venture between Sparc Technologies, Fortescue Limited (ASX:FMG) and the University of Adelaide, has secured the first patent for its exclusively licensed photocatalytic water splitting (**PWS**) reactor technology in Morocco. The granted patent marks an important milestone signifying the novelty, inventiveness and industrial applicability of the technology and it represents a positive assessment from the first patent office of 18 to review and grant the patent claims.

The patent has been granted by the Moroccan Industrial and Commercial Property Office as MA 62719. The granted patent claims are directed at a photocatalytic apparatus designed for efficient hydrogen production and secures enforceable intellectual property rights underpinning Sparc Hydrogen's unique approach to PWS. The granted claims protect key innovations in Sparc Hydrogen's solar reactor design, which leverages the entire solar spectrum to improve photocatalytic water splitting efficiency. By incorporating concentrated solar radiation, the apparatus increases reaction rates and reduces the quantity of photocatalyst material required, offering the potential for a scalable, sustainable, and cost-effective alternative to conventional green hydrogen production methods.

This is the first granted patent for the Sparc Hydrogen PWS reactor technology and underscores the strength of its intellectual property portfolio. Patent applications in 17 other jurisdictions are in progress, with Sparc Hydrogen focused on securing broad global protection.

Sparc Managing Director, Mr. Nick O'Loughlin commented:

"The granting of the first patent underpinning Sparc Hydrogen's novel approach to photocatalytic water splitting is a significant milestone for the JV following on from the recent decision to proceed with building a pilot plant. Morocco is a world leader in the adoption of concentrated solar energy and this patent provides critical protection for Sparc Hydrogen's concentrated solar driven PWS reactors in this jurisdiction. Importantly, this is the first of 18 regional filings for the patent which, if granted, would provide broad global protection for our reactor technology, reinforcing Sparc Hydrogen's leading position in this emerging field."[1]

[1] Investors are cautioned that there are no guarantees that the remaining 17 patent applications will be granted or that global protection of Sparc Hydrogen's reactor technology can be achieved.

The PWS reactor technology claimed in the granted patent is being exclusively licensed by Sparc Hydrogen from the University of Adelaide. The licenced technology will be assigned to Sparc Hydrogen subject to the completion of the Phase 2 Research Agreement between Sparc Hydrogen and the University of Adelaide. No royalties are payable by Sparc Hydrogen to the University of Adelaide under the Licence Agreement.

-ENDS-

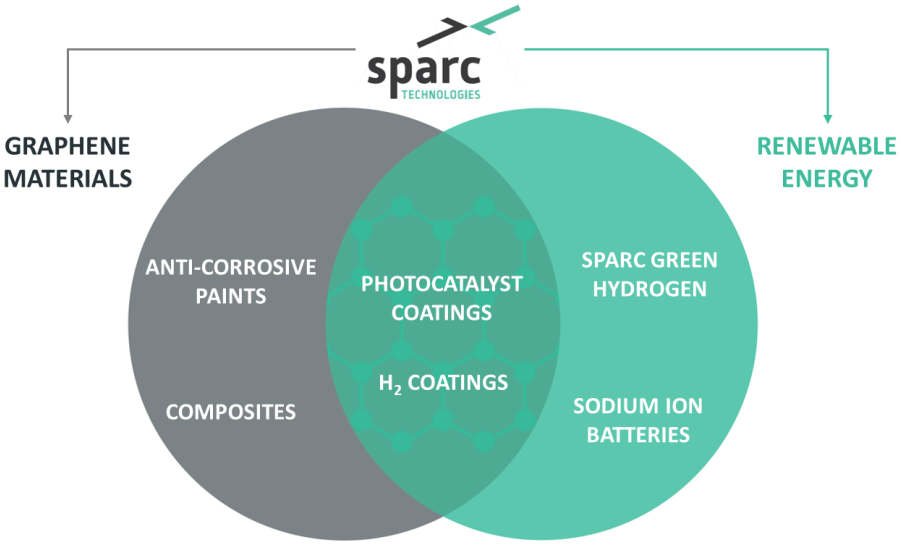
Authorised for release by: Nick O'Loughlin, Managing Director.

For more information:

Nick O'Loughlin
Managing Director
info@sparctechnologies.com.au

Aiden Bradley
Investor Relations
aiden@nwrcommunications.com.au
+61 414 348 666

About Sparc Technologies



Sparc Technologies Limited ('Sparc', ASX: SPN) is an Australian company pioneering new technologies to disrupt and transform industry while seeking to deliver a more sustainable world. Sparc has established offices in Australia, Europe and North America and is focused on three core areas of technology development.

1. Sparc is the majority shareholder of **Sparc Hydrogen** which is a company pioneering the development of a **photocatalytic water splitting** (PWS) green hydrogen production technology. PWS is an alternative to producing green hydrogen via electrolysis, using only sunlight, water and a photocatalyst. Given lower infrastructure requirements and energy use, the process has the potential to deliver a cost and flexibility advantage over electrolysis.

2. Sparc has spent over 5 years developing a **graphene based additive** product, **ecosparc®**, which has demonstrated >40% anti-corrosion improvement in commercially available epoxy-based coatings. Sparc recently commissioned a manufacturing facility to produce **ecosparc®** and is engaging with global coatings companies and asset owners to conduct field trials.

3. Sparc is also developing sustainable **sodium ion battery anode technology** utilising agricultural bio-waste materials.

For more information please visit: sparctechnologies.com.au

For more information about **ecosparc®** please visit: ecosparc.com.au

For more information about Sparc Hydrogen please visit: sparchydrogen.com

Forward Looking Statements

This announcement contains 'forward-looking information' that is based on the Company's expectations, estimates and projections as of the date on which the statements were made. This forward-looking information includes, among other things, statements with respect to the Company's business strategy, plans, development, objectives, performance, outlook, growth, cash flow, projections, targets and expectations and related expenses. Generally, this forward-looking information can be identified by the use of forward-looking terminology such as 'outlook', 'anticipate', 'project', 'target', 'potential', 'likely', 'believe', 'estimate', 'expect', 'intend', 'may', 'would', 'could', 'should', 'scheduled', 'will', 'plan', 'forecast', 'evolve' and similar expressions. Persons reading this announcement are cautioned that such statements are only predictions, and that the Company's actual future results or performance may be materially different. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the Company's actual results, level of activity, performance, or achievements to be materially different from those expressed or implied by such forward-looking information.