ASX ANNOUNCEMENT

8 December 2025

Sparc Hydrogen Appoints Inaugural CEO

HIGHLIGHTS

- **Ms Alana Barlow appointed as the inaugural CEO of Sparc Hydrogen**

Sparc Technologies Limited (**ASX: SPN**) (**Sparc, Sparc Technologies** or the **Company**) is pleased to announce that Sparc Hydrogen has appointed Ms Alana Barlow as its inaugural Chief Executive Officer, effective 8 December 2025.

Ms Barlow is an accomplished senior executive with deep connections across the hydrogen industry. Ms Barlow was previously the Queensland Government's Deputy Director-General, Hydrogen and Future Fuels and prior to that worked for Sumitomo Corporation across multiple commercial and legal roles in hydrogen, resources and energy. Alana played a key role in achieving a final investment decision on the A$117M Sumitomo Gladstone Green Hydrogen Project in partnership with Rio Tinto. Alana holds a Bachelor of Laws (LLB) and a Graduate Diploma of Legal Practice from The College of Law.

Sparc Hydrogen is a joint venture between Sparc Technologies, MIH2 Pty Ltd – a wholly owned subsidiary of Fortescue Ltd – and the University of Adelaide, which has been developing patented photocatalytic water splitting reactor technology since 2022. The recently commissioned Roseworthy pilot plant reinforces Sparc Hydrogen's leadership position in the PWS field, a potential pathway to low-cost green hydrogen production in a market expected to be worth US$1.4 trillion per year in 2050[1].

Sparc Managing Director, Mr Nick O'Loughlin commented:

> *"We are thrilled to have Alana joining Sparc Hydrogen as its inaugural CEO at a critical point in the maturation of both the technology and the business. Alana is highly skilled and motivated to drive Sparc Hydrogen into the next phase and her appointment is another strong endorsement of the technology by the joint venture partners. I am confident Alana will be a great asset for Sparc Hydrogen."*

Incoming Sparc Hydrogen CEO, Ms Alana Barlow commented:

> *"I'm delighted to join Sparc Hydrogen at this pivotal stage. The technology being developed by Sparc Hydrogen offers a differentiated pathway to low-cost green hydrogen without the electricity infrastructure constraints facing traditional electrolysis. With the Roseworthy pilot now operational and strong partnerships in place, my focus will be building on those foundations by demonstrating commercial viability and positioning Sparc Hydrogen to deliver next-generation hydrogen solutions."*

-ENDS-

[1] Green hydrogen: Energizing the path to net zero, Deloitte's 2023 global green hydrogen outlook (figures have been expressed in Australian dollars)

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

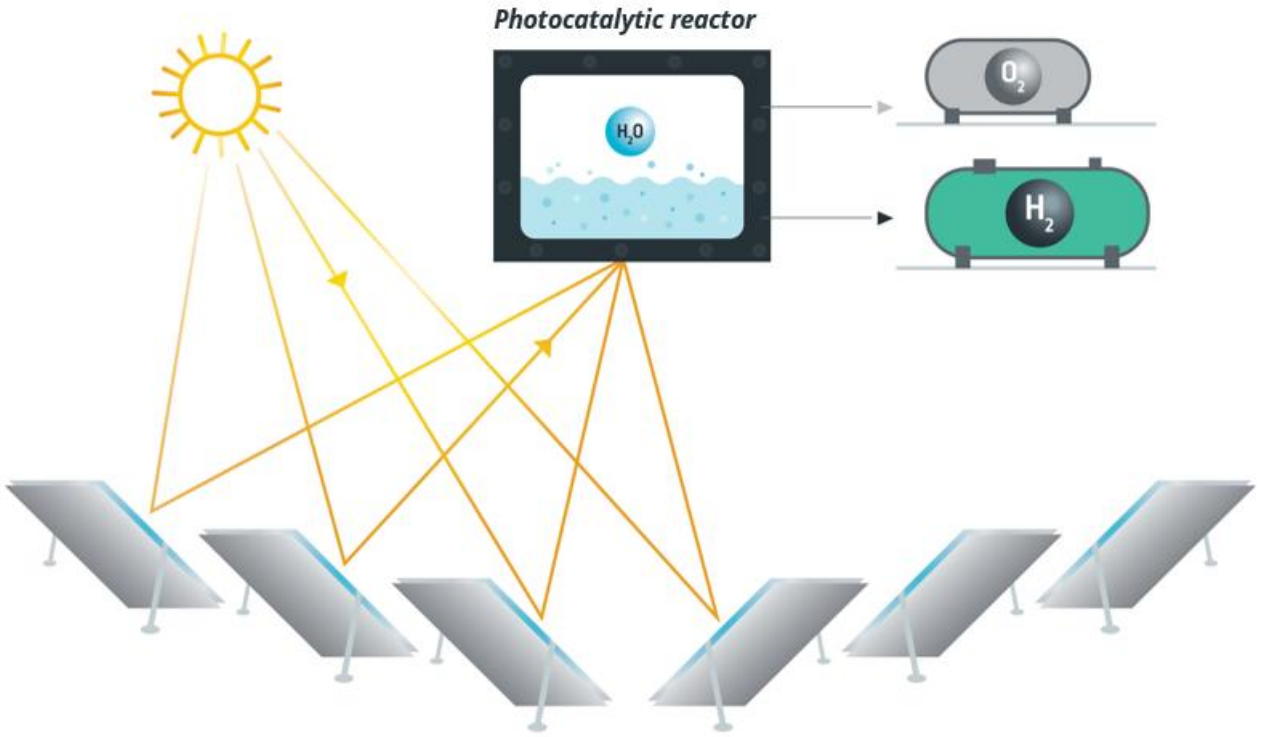
For more information:

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

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

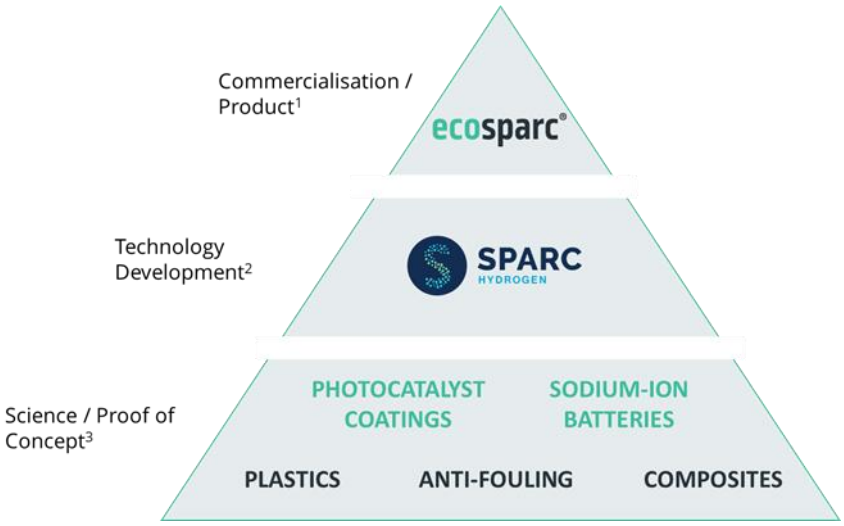
About Sparc Hydrogen

Sparc Hydrogen is a joint venture between Sparc Technologies, the University of Adelaide and Fortescue developing next generation green hydrogen technology using a process known as photocatalytic water splitting. This process requires only sunlight, water and a photocatalyst to produce green hydrogen, without an electrolyser. Sparc Hydrogen's patented reactor utilises concentrated sunlight to improve the economics of PWS and to deliver a modular, scalable system. Given lower infrastructure requirements and electricity use, PWS has the potential to deliver a cost and flexibility advantage over electrolysis.



Sparc Hydrogen schematic demonstrating combination of concentrated solar and photocatalytic water splitting

About Sparc Technologies



Sparc Technologies Limited ('Sparc', ASX: SPN) is an Australian technology company developing solutions that enhance environmental and sustainability outcomes for global industries. Sparc has two transformative technology areas in which it works: green hydrogen and graphene enhanced materials. Sparc conducts research and development in-house and has extensive engagement and relationships with the university sector in Australia and globally.

1. **Sparc Hydrogen** is a joint venture between Sparc Technologies, Fortescue Ltd and the University of Adelaide which is pioneering next-generation green hydrogen production technology. Photocatalytic water splitting (PWS) is an emerging method to produce green hydrogen without electrolysers - using only sunlight, water and a photocatalyst. Given lower infrastructure requirements and energy use, PWS has the potential to deliver cost and flexibility advantages over existing hydrogen production methods.

2. Sparc has developed and is commercialising a **graphene based additive** product, **ecosparc®**, which at low dosages significantly improves the performance of commercially available epoxy-based protective coatings. Sparc has commissioned a manufacturing facility to produce **ecosparc®** and is engaging with global coatings companies and large asset owners on testing, trials and commercial partnerships.

For more information about the company please visit: sparctechnologies.com.au

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