

Successful **ecosparc**[®] Field Trial Results with SA Government

HIGHLIGHTS

- **First inspection confirms positive performance of an **ecosparc**[®] enhanced anti-corrosion coating on steel infrastructure at Streaky Bay Jetty, South Australia**
- **No signs of degradation or failure observed during the initial trial phase—commonly the most critical period for identifying coating performance issues**
- **Results support commercial and specification discussions with major coatings companies and asset owners**
- **Field trials and confidential testing programs continue across multiple environments, with commercial adoption expected in FY26**
- **Addressable market is estimated at ~US\$1.0bn per annum with uptake driven by significant cost and emissions savings through using **ecosparc**[®] enhanced coatings**

Sparc Technologies Limited (ASX: SPN) (Sparc, Sparc Technologies or the Company) is pleased to announce the successful outcome of initial inspections confirming the strong performance of an **ecosparc**[®] enhanced coating on steel infrastructure at the Streaky Bay Jetty in South Australia.

The field trial with the South Australian Department for Infrastructure and Transport (**DIT**) utilises a commercially manufactured **ecosparc**[®] enhanced anti-corrosive coating in a relevant application. During the trial, performance of the **ecosparc**[®] enhanced coating is being directly compared with the equivalent market leading (unmodified) anti-corrosive coating. The enhanced and unmodified coatings were applied under identical conditions on equivalent steel piles in July 2024. Positive feedback was received regarding the application of both coatings.

The visual inspection, undertaken by an independent inspector, showed no signs of coating degradation or early failure mechanisms (i.e. cracking, peeling, blistering, rust breakthrough) for the **ecosparc**[®] enhanced coating, matching the performance of the commercial benchmark. These results meet Sparc's expectations and will support commercial and specification discussions with major coatings companies and asset owners. It is noted that the long-term corrosive performance of the **ecosparc**[®] enhanced coating is primarily determined by 6 months of cyclic corrosion testing already conducted in Sparc's laboratories. This testing, performed to the relevant international standards, simulates 25 years of real-world performance in a harsh corrosive environment and has shown the commercially produced **ecosparc**[®] enhanced coating to significantly outperform the commercial benchmark.

Sparc Managing Director, Mr Nick O'Loughlin commented:

*"I'm very pleased to see the first results from field trials of an **ecosparc**[®] enhanced coating which goes a long way to derisking the product for commercial use in epoxy-based protective coatings. The extensive laboratory test work that has been completed with excellent results is being externally validated in an environment which is representative across a broad range of assets. We thank the South Australian DIT for the access and ongoing support provided for the trial with a view to specifying **ecosparc**[®] enhanced coatings for commercial use."*





Figure 1: Trial inspection photos showing coatings performing well at the Streaky Bay Jetty, South Australia (April 2025)

Sparc has field trials underway with end users of significant scale across a number of operational environments. In addition to working with DIT, field trials are progressing with 29Metals, Santos and BHP Mitsubishi Alliance. The main purpose of the field trials is as follows:

- Derisking **ecosparc**[®] enhanced coatings for commercial use.
- Demonstrating market interest for better performing anticorrosive coatings from significant asset owners.
- Facilitating inclusion of **ecosparc**[®] enhanced coatings in asset owner specifications.

In addition to the field trials noted above, Sparc has several confidential testing programs underway with major oil & gas companies in collaboration with major coatings manufacturers. The results of these programs are targeting the specification of **ecosparc**[®] enhanced coatings by the respective oil & gas companies.

Commercialisation Pathway

Sparc continues its dual-track approach to develop the market for the **ecosparc**[®] graphene-based additive in widely used epoxy-based protective coatings, targeting both major coatings companies and large asset owners. Sparc is actively engaged with five of the eight largest global protective coatings companies on the testing and use of **ecosparc**[®]. In addition, Sparc is working with large asset owners across government, oil & gas and mining on both field trials and confidential testing programs. Sparc views the strong level of engagement from the coatings industry and asset owners as evidence that graphene is gaining traction as a product enhancement tool and that Sparc is seen as a leader in this emerging area due to its experience and extensive data.

With field trial results and lab testing in commercially applicable products and specification programs progressing during 2025, Sparc expects commercial acceptance and adoption of **ecosparc**[®] enhanced products during FY26. As commercial manufacturing capability is already established, the Company believes that it can support ramp up of product volumes without a significant increase in investment. Initial discussions around pricing of the **ecosparc**[®] product support Sparc's view that high gross margins can be achieved whilst maintaining price competitiveness of the **ecosparc**[®] enhanced coatings in large volume applications. The addressable market (revenue opportunity) for **ecosparc**[®] within the broader anticorrosive protective coatings market is estimated at ~US\$1.0bn per annum.



For personal use only

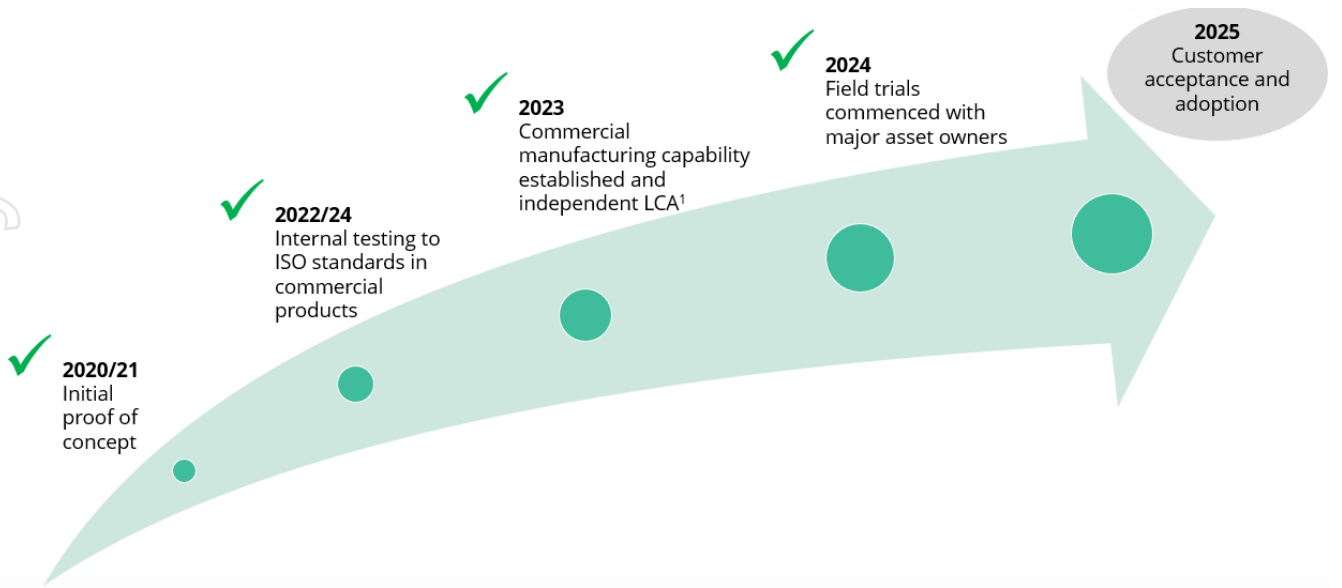


Figure 2: **ecosparc**[®] development and commercialisation pathway

About **ecosparc**[®] - A performance additive for protective coatings

Sparc Technologies has conducted over 6 years of research and development on **ecosparc**[®], its flagship graphene based additive product. The addition of very small quantities of **ecosparc**[®] to conventional protective coatings, has demonstrated substantial anti-corrosion improvement in commercially available epoxy-based coatings, ensuring the reliability, longevity, safety and cost-effectiveness of the steel infrastructure they cover.

In 2023, the Company commissioned its **ecosparc**[®] commercial production facility. The facility enables Sparc to provide commercial quantities of graphene based additive product for the coatings industry and to support field trials. Multiple global coatings companies continue to undertake product evaluation of **ecosparc**[®] in their anti-corrosive coatings. Further to this, Sparc is progressing a campaign targeting asset owners with a view to conducting field trials utilising **ecosparc**[®] enhanced coatings on key steel infrastructure such as frames, tanks and structures in a variety of corrosive environments. Infrastructure owners being targeted include government, defence, mining, and oil and gas companies.



-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

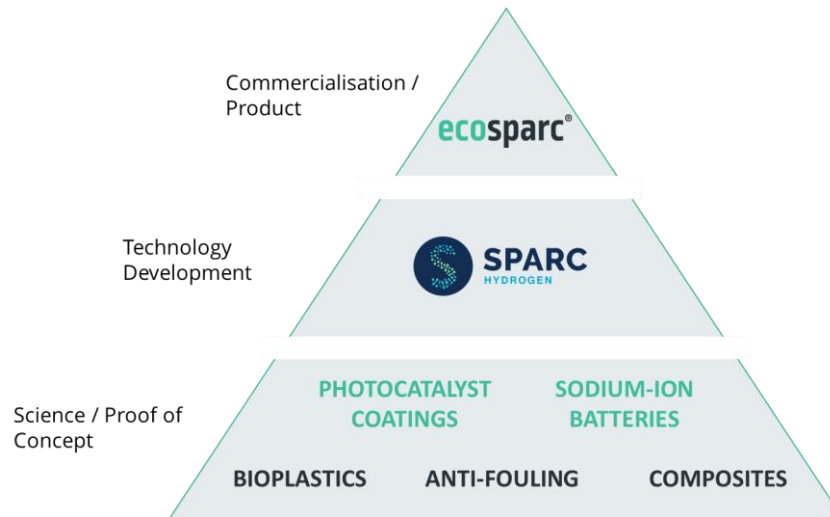
Download the dialog app
and message the Sparc
Technologies
management team today.



For personal use only



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 Limited 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 electrolyzers - 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

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

