

SPARC INVESTOR WEBINAR PRESENTATION

Sparc Technologies Limited (ASX: SPN) (Sparc or the Company) is pleased to announce its participation in the ShareCafe Small Cap "Hidden Gems" Webinar, to be held Friday 11th of March 2022 from 12:30pm AEDT / 9:30am AWST.

Sparc Technologies is pioneering new technologies to disrupt and transform industry for cleaner, more sustainable outcomes. Managing Director Mike Bartels will provide an overview of the Company's Graphene and Green Hydrogen Divisions.

Sparc Graphene is concerned with the formulation and adoption of Graphene Based Additives targeting Coatings, Composites and Concrete.

The Green Hydrogen Project will utilise a technology known as Thermo-Photocatalysis, which employs the sun's radiation and thermal properties to convert water into hydrogen and oxygen.

This webinar is able to be viewed live via Zoom and will provide viewers the opportunity to hear from, and engage with, a range of ASX-listed leading micro/mid cap companies.

To access further details of the event and to register at no cost, please click on the following link or copy and paste the link into your internet browser:

https://us02web.zoom.us/webinar/register/9516463504855/WN_7qd5PI7ISSa7QHV10tPafQ

A recorded copy of the webinar will be made available following the event.

A copy of the investor presentation to be delivered during the webinar is attached.

-ENDS-

Authorised for release by: Stephen Hunt, Executive Chairman.

For more information:

Stephen Hunt

Executive Chairman

+61 402 956 205

Stephen.hunt@sparctechnologies.com.au

Mark Flynn

Investor Relations

+61 416 068 733

mark.flynn@sparctechnologies.com.au



Investor Webinar

March 2022

ASX: SPN

Transformational Technology for Global Industries

Sparc Technologies – Introduction

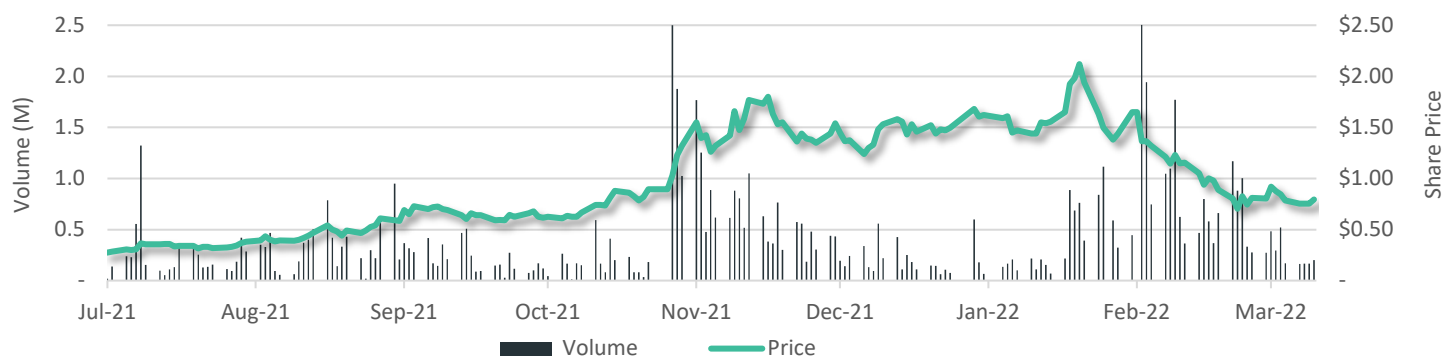


SPARC TECHNOLOGIES BOARD		EXECUTIVE MANAGEMENT TEAM		
				
Stephen Hunt Executive Chairman	Mike Bartels Managing Director	Peter Wilson GM Engineering	Andrew Smith TM Industrial Materials	Jake Parker Chief Technology Officer
				
Stephanie Moroz Non-Exec Director	Daniel Eddington Non-Exec Director	Ben Yerbury TL Bio-Medical & Health	Nick O'Loughlin Mgr. Energy & Bus. Dvmt	

Capitalisation	
ASX Code	SPN
Share price*	\$0.80
Shares on Issue	79.1m
Market Capitalisation	\$63.3m
Cash (as at 31 Dec 21)	\$3.4m
Debt (as at 31 Dec 21)	Nil
Enterprise Value	\$59.9m

* As at 10 March 2022

12 Month Share Price



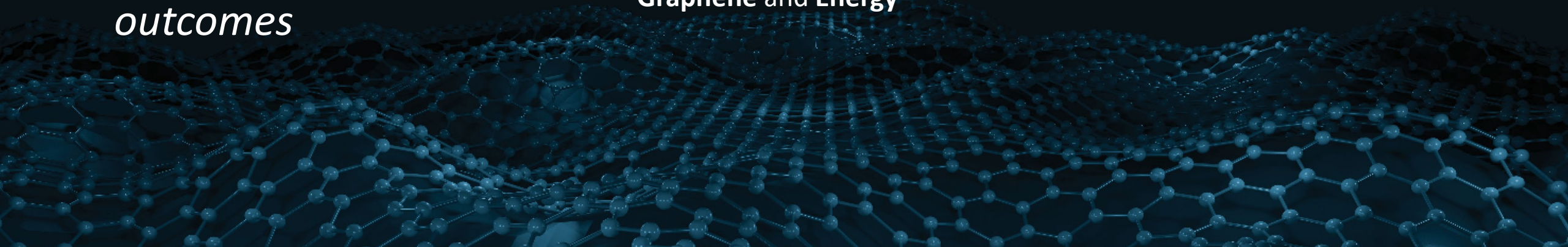
Major Shareholders	% held
University of Adelaide	8.3%
Director's and Management	15.1%

Sparc Technologies – Introduction



Pioneering new technologies to disrupt and transform industry for cleaner, more sustainable outcomes

- ▶ Company was listed on the ASX in November 2020 – based on a graphene technology platform from the University of Adelaide. University of Adelaide has an 8.3% shareholding in the company
- ▶ Relatively small volume of shares / tightly held (TOP 20 Shareholders hold approx. 40% of shares)
- ▶ Sparc has two primary areas of focus – **Graphene and Energy**



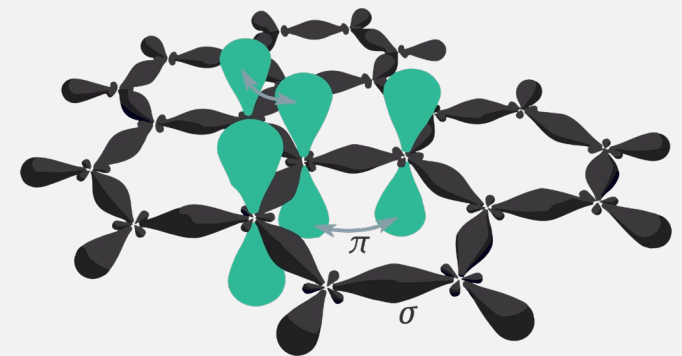
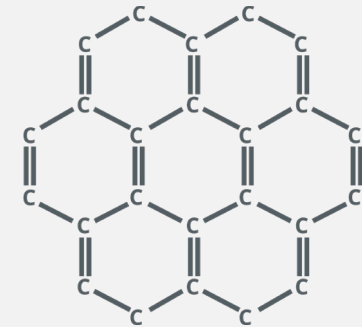
GRAPHENE



Graphene

- ▶ Allotrope of Carbon
- ▶ First isolated in 2004 via exfoliation of Graphite (University of Manchester)
- ▶ “2 Dimensional” i.e., very thin layers of Sp² hybridised carbon atoms
- ▶ High mechanical strength, large surface area per unit weight, high resistance to degradation, electrical conductivity

In simple chemical terms:



Sparc Technologies – Graphene



- ▶ With a unique array of characteristics graphene, with time, will be incorporated into everything from Building Materials to Electronics and Medical Equipment
- ▶ Sparc Graphene is focused on enhancing and disrupting products within the Building Materials sector
- ▶ This sector is multi-billion dollar, established and global offering significant commercial opportunities
- ▶ Customers within this segment invariably have ESG objectives that can benefit courtesy of product enhancement or substitution delivered by the adoption of a graphene based material
- ▶ Sparc Graphene is concerned with the formulation and adoption of *Graphene Based Additives* targeting Coatings, Composites and Concrete (cementitious materials)

Sparc Technologies – Graphene



- ▶ *Graphene Based Additives* are developed for targeted end use;
 - ▶ Formulations aimed at enhancing product performance as opposed to simple dispersions aimed at supporting handleability (typically the approach of graphene producers)
 - ▶ Targeting multiple graphene sources with specific performance criteria means we cannot be captive to a manufacturing process (that dictates graphene characteristics)
- ▶ Sparc has established a purpose built Research and Development facility
- ▶ R&D activities are augmented by a number of collaborative arrangements with Australian universities
- ▶ Capabilities
 - ▶ Inherent understanding of graphene
 - ▶ Know-How regards formulating with graphene
 - ▶ Know-How regards manufacture and scale-up
 - ▶ R&D Capabilities
- ▶ Active program regards the patenting of products within Coatings

Sparc Technologies – Graphene



- ▶ Based on comprehensive testing to applicable industry standards, we have demonstrated the ability to deliver significant product enhancement in Coatings
 - ▶ up to 40% in anti-corrosive coatings performance¹
- ▶ The global Coatings market represents the first opportunity for Sparc to enter into a commercial agreement
- ▶ Currently in discussions with a number of global paint companies - objective is to enter into a formal collaborative technical agreement as the precursor to a commercial agreement

Technology can be monetised via supply of Graphene Based Additives / or via transfer of Know-How and licensing

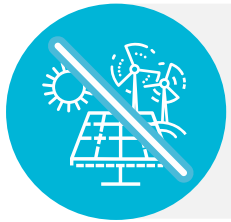
- ▶ Critically we have both global expertise and access to multi-national Customers
- ▶ Approach in Coatings (i.e., formulation for a targeted end use, testing to recognised industry stds, customer engagement employing subject mater experts) is now being developed in Composites and Concrete

SPARC GREEN HYDROGEN



Sparc Green Hydrogen – Overview

Photocatalytic Hydrogen - Next generation technology to transform global green hydrogen production

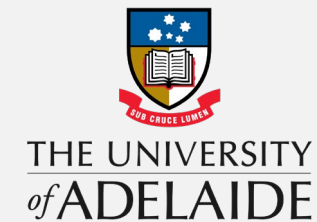


**No Wind or Solar
PV Farms Required**

- ▶ **Globally disruptive** technology developed by University of Adelaide and Flinders University
- ▶ Hydrogen produced **directly from sunlight and water** in a single step process
 - ▶ Photocatalytic water splitting
 - ▶ Avoids conversion of solar or wind energy into electrical energy then into hydrogen in a green electrolysis process
- ▶ Infrastructure requirements are different than green electrolysis
 - ▶ **No large scale wind or solar PV farms** required
 - ▶ **No electrolysers** or heavy duty electricity infrastructure
 - ▶ Opportunity for **scalable** deployment
 - ▶ **Zero carbon** process
- ▶ Further research & development work is targeting a system with **industry leading costs**
- ▶ Best-in-class partners - **University of Adelaide** and **Fortescue Future Industries**¹

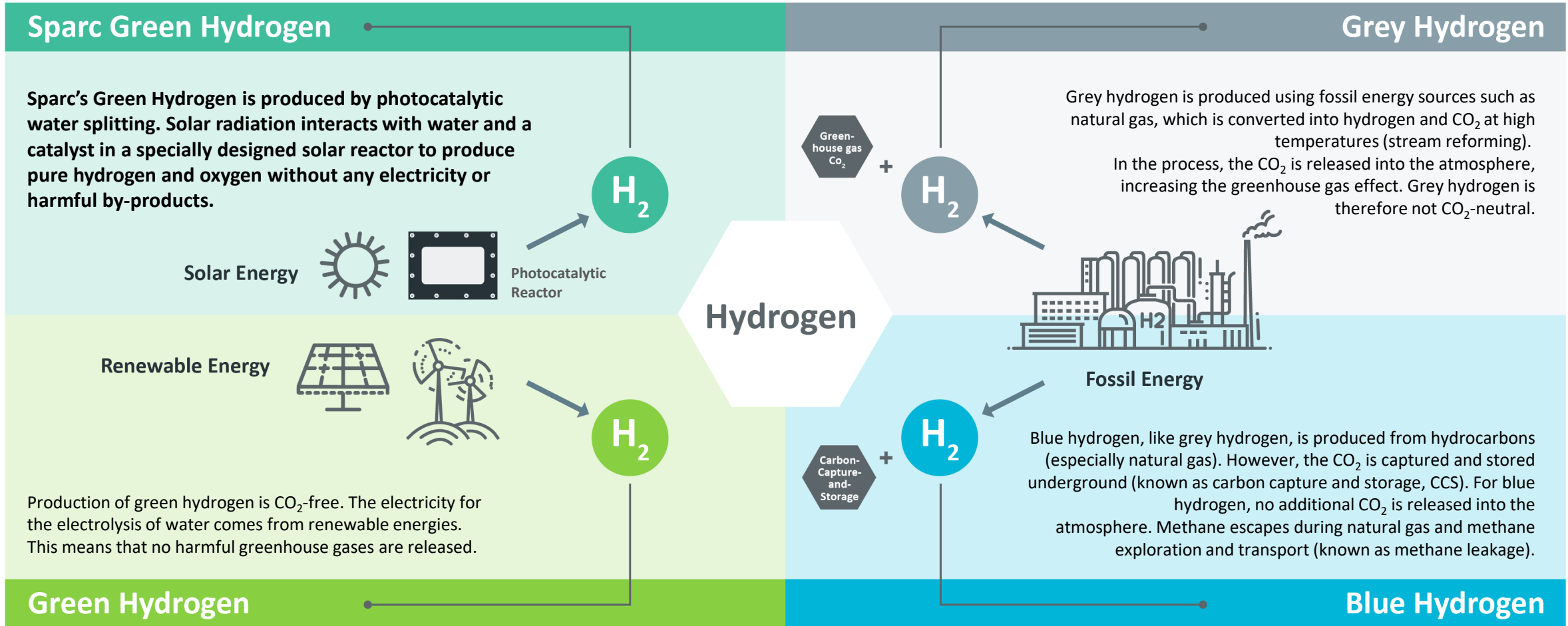


**No Electrolysis
Required**

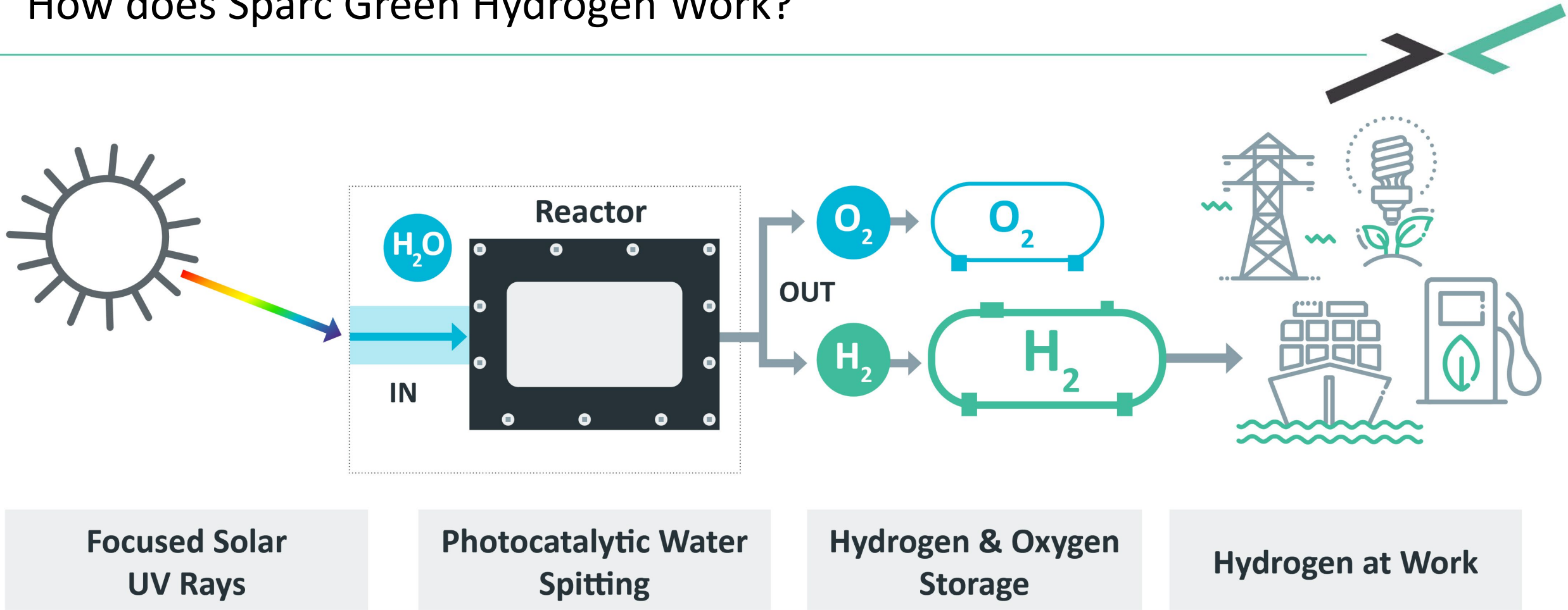


1 – See SPN ASX Releases [27 October 2021](#) and [2 February 2022](#)

The Colours of Hydrogen

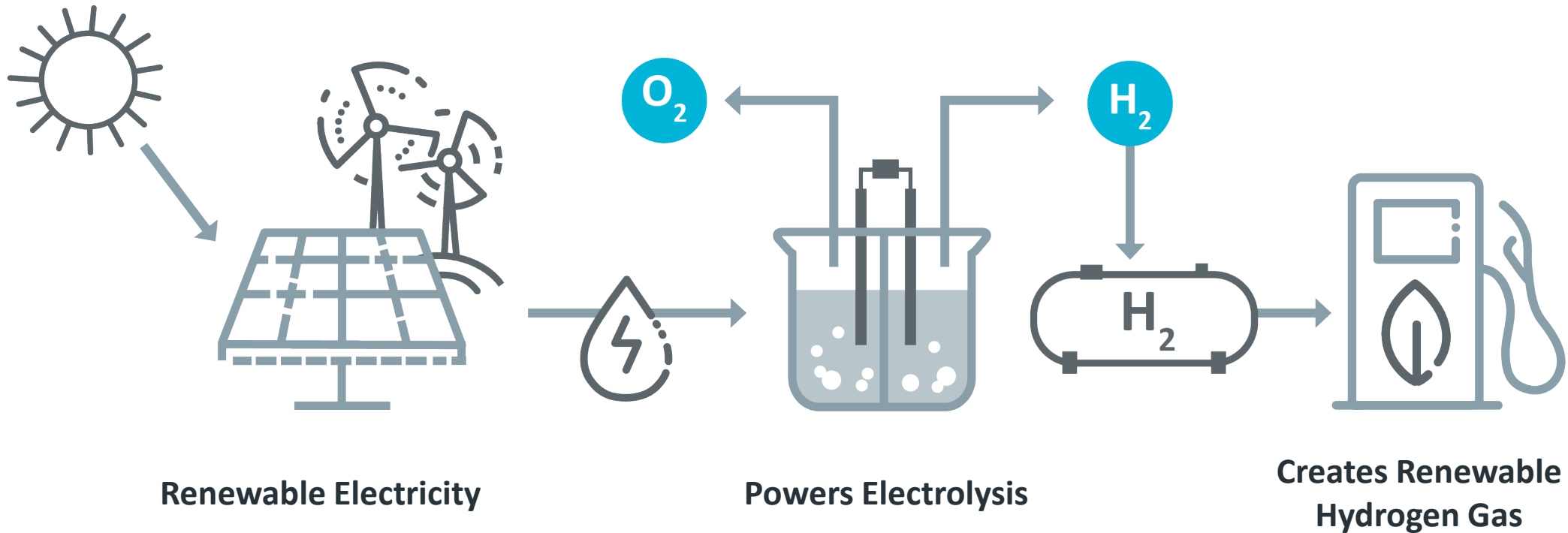


How does Sparc Green Hydrogen Work?



Sparc Green Hydrogen does not use solar PV and/or wind farms, nor electrolysis as with conventional green hydrogen – only a photocatalyst and solar radiation

As Opposed to...



Conventional green hydrogen technologies use electricity derived from solar PV and/or wind farms to produce hydrogen using an electrolyser

Sparc Green Hydrogen – Advantages



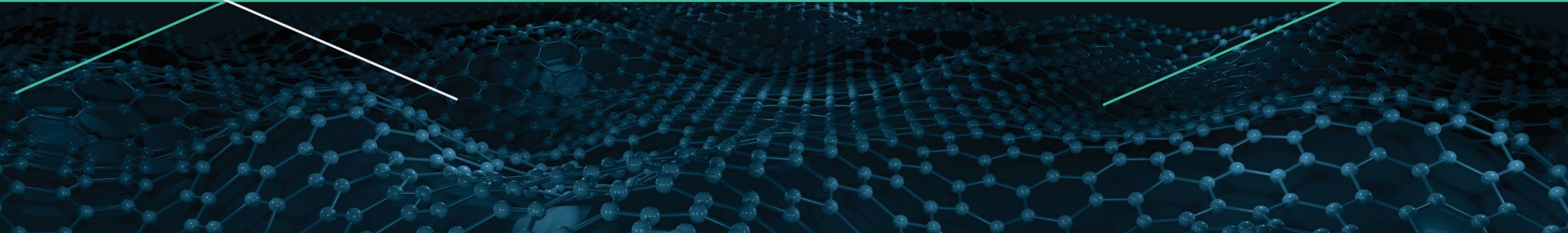
“Such systems (photocatalytic water splitting) offer great potential for cost reduction of electrolytic hydrogen, compared with conventional two-step technologies.” (CSIRO National Hydrogen Roadmap¹)

	Sparc Green H ₂	Green H ₂	Blue H ₂	Grey H ₂
Description	Photocatalysis	Electrolysis via renewable electricity	Using SMR with CCUS*	Steam methane reforming (SMR)
Feedstock	✓ Water	✓ Water	✗ Natural gas, Water	✗ Natural gas, Water
By-product	✓ Pure O ₂	✓ Pure O ₂	• Emissions sequestered	✗ CO ₂ , NO _x , SO _x , PM
Carbon emissions from process¹	✓ Nil	✓ Nil	✗ 0.76kg CO ₂ / 1kg H ₂	✗ 8.5kg CO ₂ / 1kg H ₂
Location restrictions	✓ Solar resource	✗ Solar +/- wind resource & electrical infrastructure	✗ Gas source and suitable storage	✗ Gas source
Requisite scale	✓ Scalable	✗ Very large	✗ Very large	✗ Large

* Carbon capture, use and storage



Disrupting global industries with transformational technology



Contact



Stephen Hunt

Executive Chairman

+61 402 956 205

stephen.hunt@sparctechnologies.com.au



Mike Bartels

Managing Director

+61 408 288 301

mike.bartels@sparctechnologies.com.au



Mark Flynn

Investor Relations

+61 416 068 733

mark.flynn@sparctechnologies.com.au