

HAZER GROUP LTD

ASX:HZR

Company update
July 2022

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HAZER GROUP LIMITED

Commercialising the Hazer Process, a world-leading example of a low-carbon hydrogen and graphite production method

- Hazer Process – low emission path to create two high value products utilising methane feedstock and iron ore catalyst
 - **Hydrogen**; 99.99% +purity
 - **Synthetic Graphite**: 80-95% TGC
- Hazer Commercial Demonstration Project located in Perth to validate Hazer technology on small-industrial scale – 100 tpa
- MOU with Suncor & Fortis BC to develop the Burrard Hazer Hydrogen Project – 2,500 tpa
- Strong R&D program to develop opportunities in growing market for graphite and Advanced Carbon Materials



A GROWING, GLOBAL HYDROGEN ECONOMY

COP26 affirmed a global commitment to reach net-zero emissions by 2050

- more than 75 countries have agreed to the net-zero target

By 2050 :

The world has identified it needs ~200-600 Mt of H₂ to fill the gap needed to complete the transition to 100% renewable energy

Hydrogen production needs to increase to account for ~22% of total energy consumption from less than 0.002% today to meet global energy goals

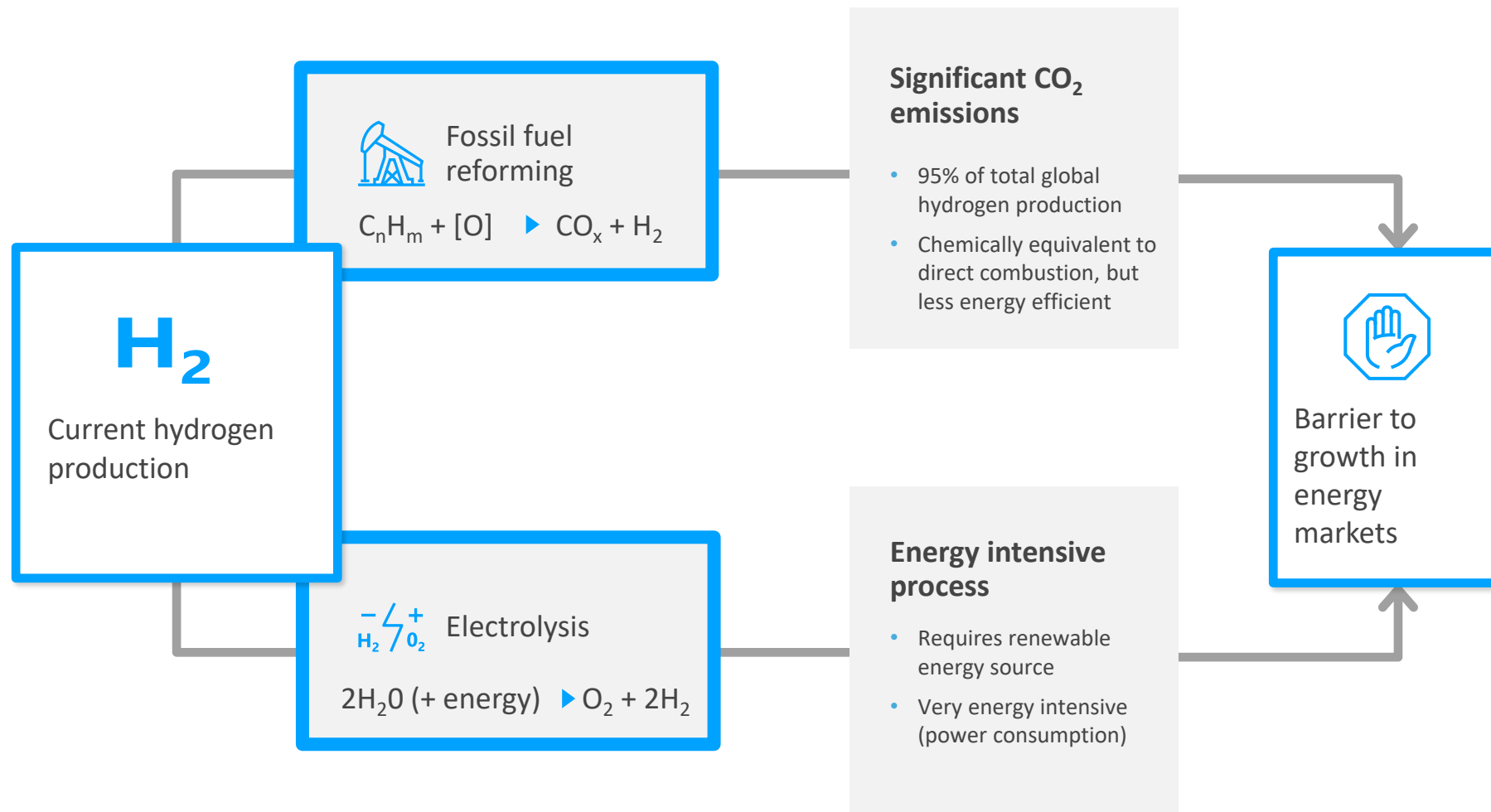
low-carbon hydrogen will constitute 7% of global final energy demand

Addressable market worth >~\$12T up from a cumulative US\$90B in 2030

- “Meeting net zero is not possible without hydrogen” COP26
- Large and growing addressable market supported by government policies globally - COP26
- H₂ value proposition is underpinned by its **ability to reduce emissions** within sectors where decarbonization is otherwise challenging; heavy industry (steel, chemicals), heavy transport
- As H₂ production and distribution systems scale by 2030, industry **experts forecast H₂ to be cost-competitive** with other low-carbon alternatives

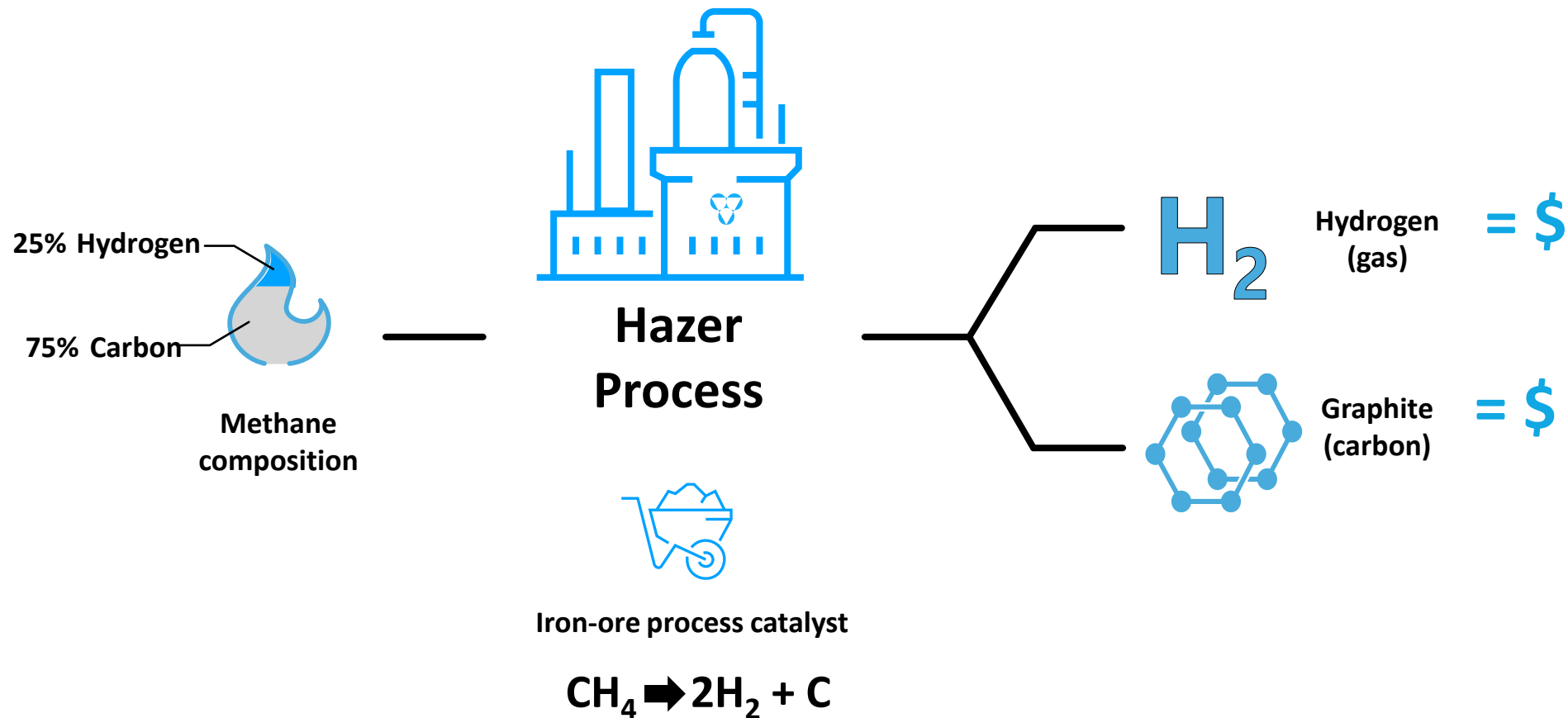
CURRENT HYDROGEN PRODUCTION

Current technologies are either higher emissions, or higher energy intensity



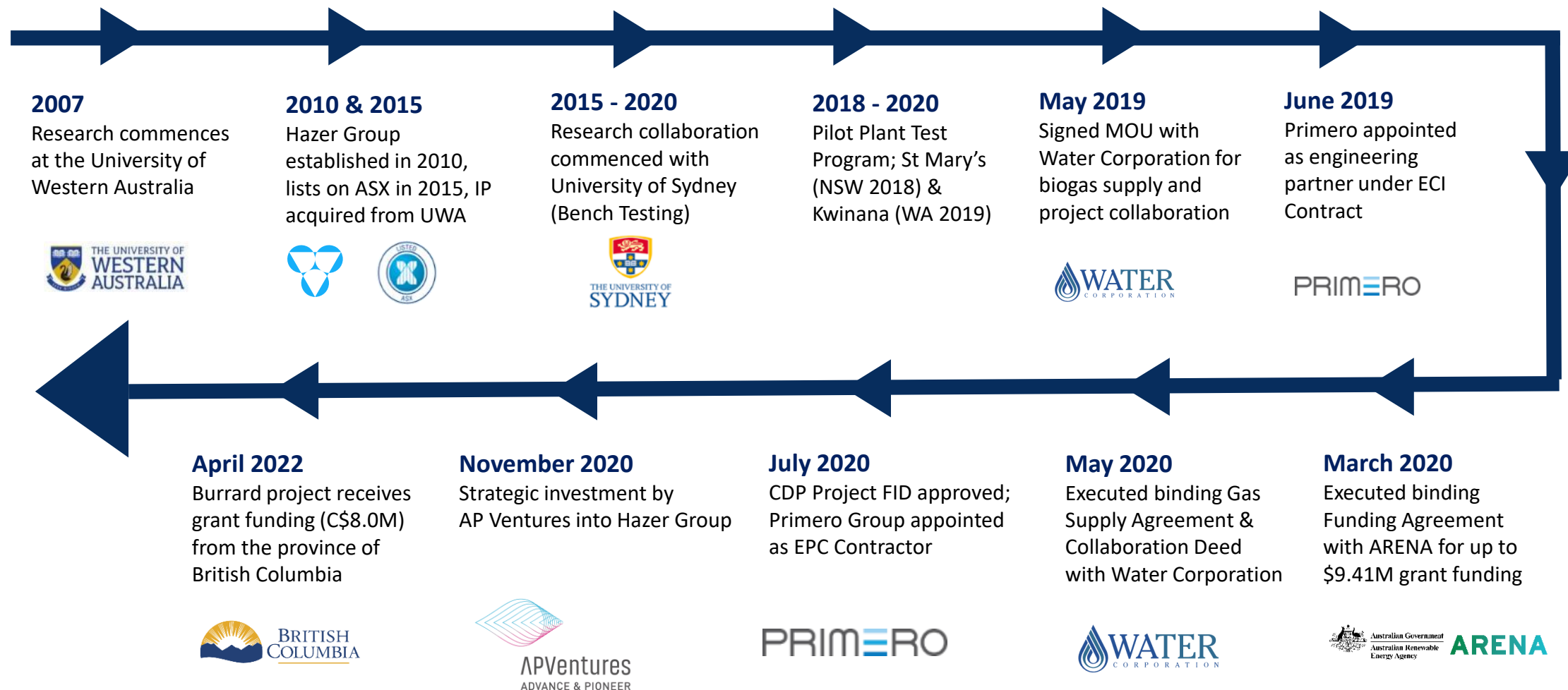
THE HAZER PROCESS

Producing two sustainable and valuable products without creating CO₂ in the process



HAZER DEVELOPMENT HISTORY

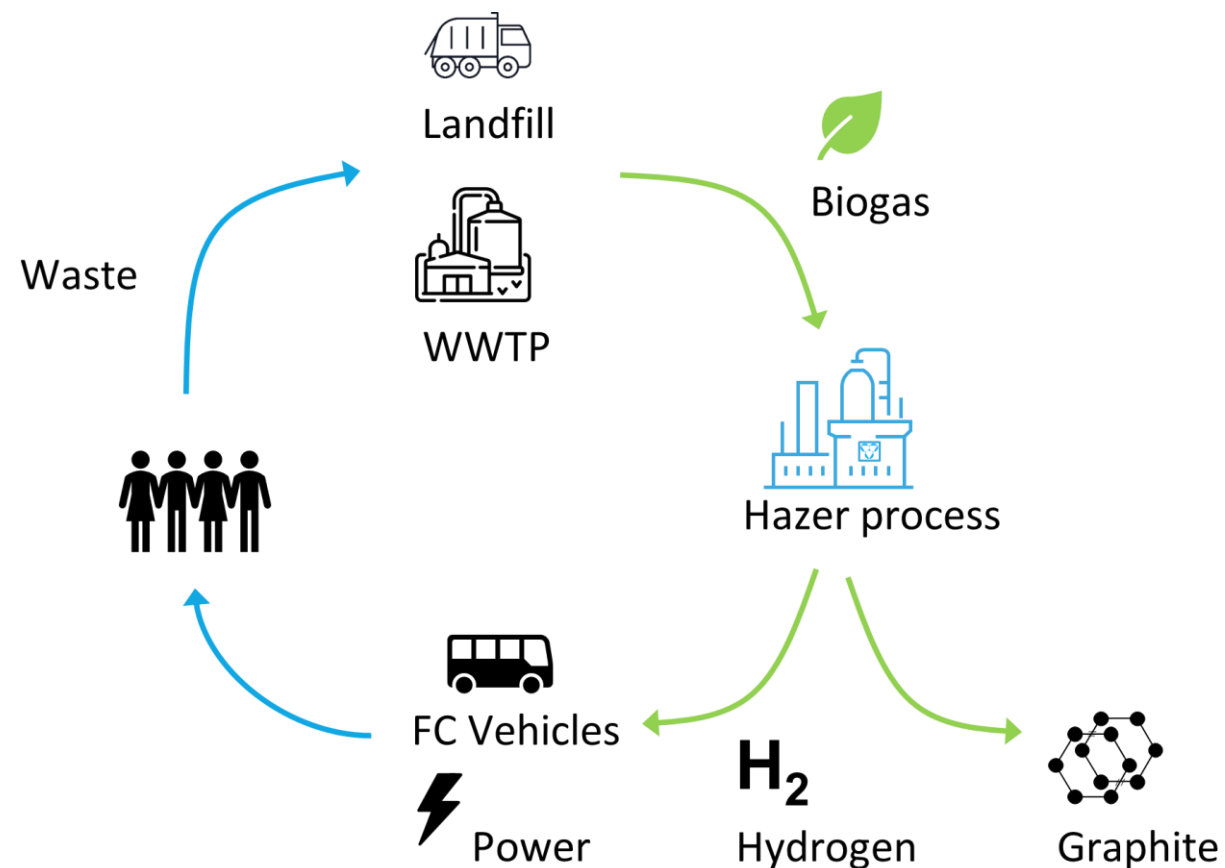
Currently building first demonstration project after successful research and pilot programs



SUSTAINABILITY

The Hazer Process has outstanding sustainable development attributes

- Renewable fuel based (biogas)
- Significant carbon abatement potential*
- Waste-to-Resource / Waste-to-Energy
- Locally produced – close to potential customers
- Domestic and local energy source



* CO₂ abatement potential : 100 - 150 t CO₂(equiv) / t Hydrogen when utilising biogas feedstock

HAZER COMMERCIAL DEMONSTRATION PROJECT

First fully integrated, larger scale demonstration of the Hazer Process



Project Summary

- Location Woodman Point WWTP (WA)
- Feedstock Type Biogas
- Feedstock Vol. ~2 million Nm³/year
- Hydrogen 100 tpa (99.99% purity)
- Graphite ~380 tpa (90 - 95% TGC)
- Site Area ~4,000 m²
- Reactor Design Pressurised Fluidised Bed
- Heating Electrical Heating



ARENA

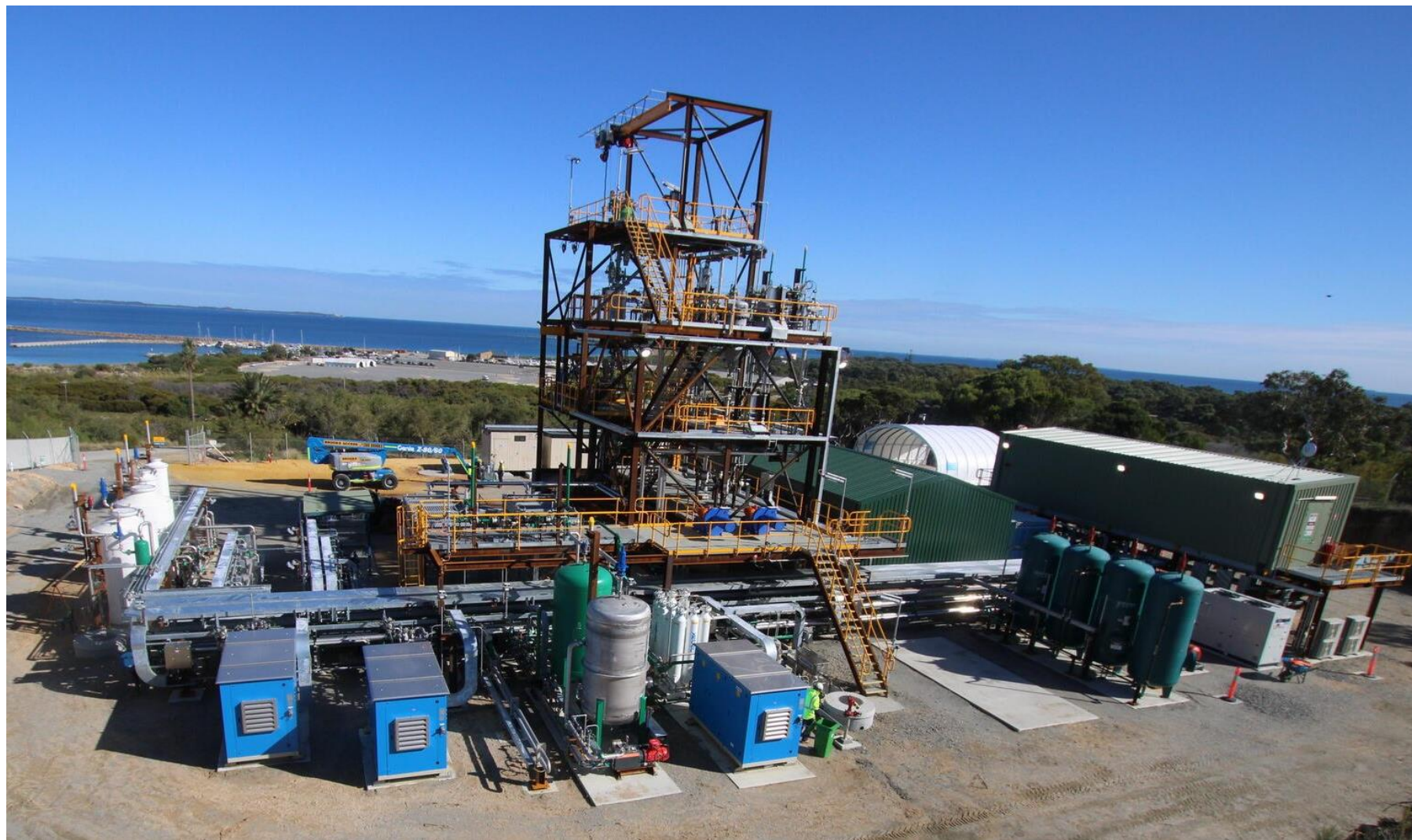


Australian Government
Australian Renewable
Energy Agency

PRIMEERO

HAZER COMMERCIAL DEMONSTRATION PROJECT

Construction and Commissioning activities completed in June 2022



Site Image as at 3 June 2022

BURRARD HAZER HYDROGEN PROJECT

Development of a 2,500 tpa hydrogen production facility in British Columbia

MOU signed in Feb 2022 with Suncor & FortisBC

- Hazer, Suncor and Fortis BC to collaborate on the development of Burrard Hazer Hydrogen Project
- Project will be a 2,500 tpa hydrogen & 9,000 tpa graphite production facility to be located at Suncor's Burrard Terminal
- Natural gas feedstock to be supplied from Fortis BC pipeline network with H₂ to be used to replace natural gas for customers

Project Timeline

- Initial feasibility study stage commenced in February 2022
- Final Investment Decision (FID) target mid-2023
- Ready-for-Start-Up (RFSU) target 2025

Successful Grant Funding Application

- C\$8M in grant funding from the province of British Columbia
- Funds to be used to support the pre-FID activities of the Project, including:
 - Initial Feasibility Study
 - Front-End Engineering and Design (FEED) studies
 - Permitting applications and studies
 - Assessment of the capacity to blend produced hydrogen into the FortisBC natural gas system



R&D – PURIFYING THE GRAPHITE PRODUCT

Refining our production technology and catalyst selection, and purification & optimization of future graphite products

Hazer Graphite

- Versatile properties and potential for wide application in a growing market with value >US\$14b p.a.
- Purity ex-reactor ~80-95% (wt) with potential to >99% purity via standard techniques

High potential impact programs continuing in 2022

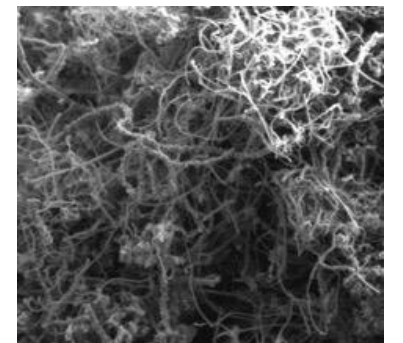
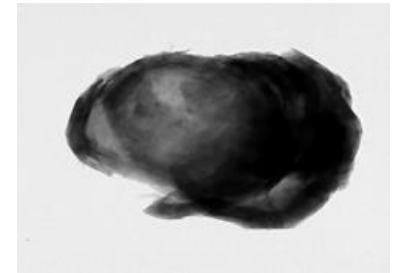
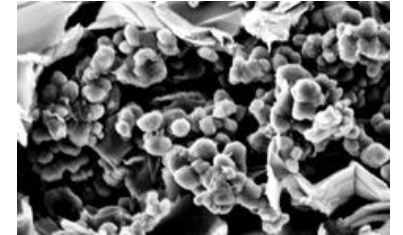
- Catalyst & process optimisation research
- Graphite Purification
- Graphite Characterization
- Graphite Optimisation Research

Innovative Manufacturing Cooperative Research Centre arrangement

- Progressing R&D studies into the novel Electrochemical Purification (ECP) technique to purify Hazer graphite without the use of high-temperature or aggressive acid treatment

Exploring additional applications of Hazer's novel graphitic ACMs

- Market potential for Hazer graphite in a range of market segments for both purified and unpurified form including advanced materials, energy storage, metals processing, lubricants, & water treatment
- Larger scale testing and customer trials possible once graphite production commenced from CDP



SUMMARY

Strongly positioned with a highly experienced Board and Management Team to capture the opportunities offered by the growth in the hydrogen economy and decarbonisation goals globally



Hazer CDP Project - first larger-scale demonstration of Hazer Process



Strong balance sheet to fund CDP, Canada, R&D and business development programs



Continuing to develop new partnerships across strategic markets and technology development



MOU to develop larger scale Hazer Project in Canada – strong partner group & secured initial government funding



Strong R&D capability & targeted program to support business strategy and new growth opportunities



Global interest in low-carbon hydrogen technologies; demand for low carbon H₂ accelerating



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