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Hazer Group Ltd

*Clean hydrogen technology to
decarbonise the world*

Australian Hydrogen Conference
Panel discussion – Hydrogen's role in decarbonising heavy industry

7 December 2022





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Disruptive hydrogen production technology

Well positioned to play a substantial role in global decarbonisation.



Rapidly growing demand for hydrogen in a US\$12 trillion market by 2030



A low emission hydrogen technology with strong competitive advantage



Commercial Demonstration Plant de-risking technology with production for 2023



Clear pathway to commercial scale at Burrard-Hazer Plant, Canada



Building global partnerships across strategic markets and with stakeholders in hard-to-abate industries



Balance sheet strength to fund projects, R&D and business development programs

Highly experienced team and extensive R&D capability



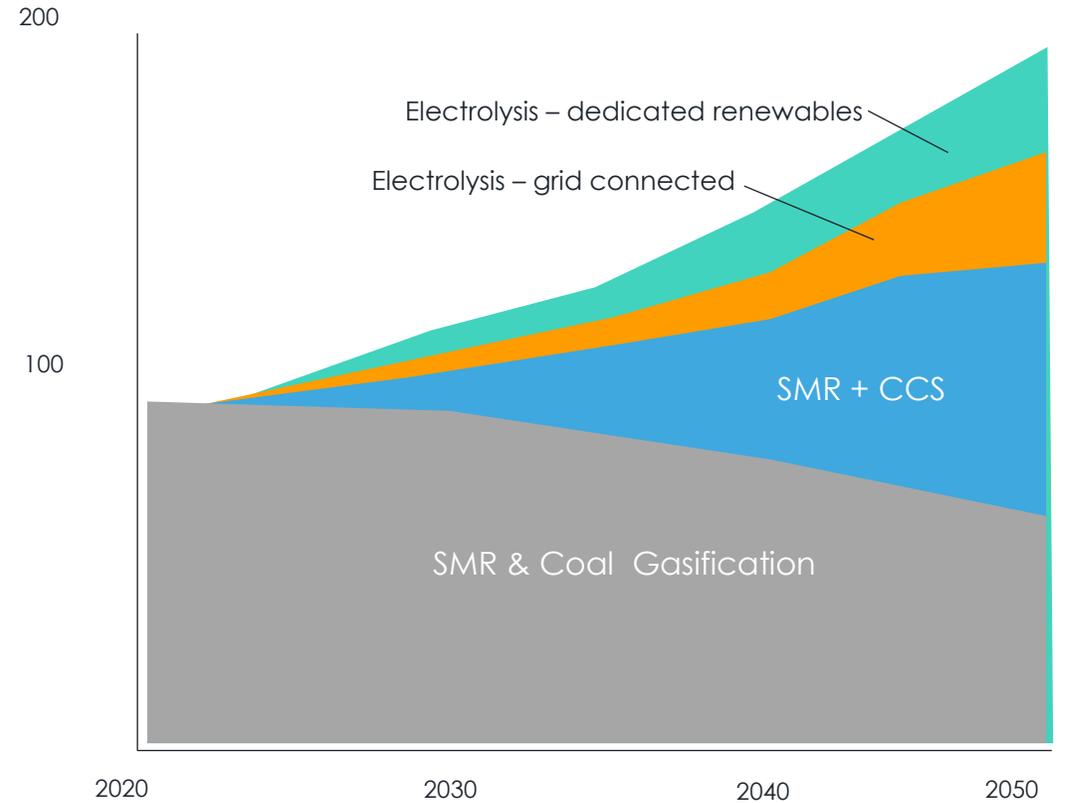


Building a leading position in a rapidly growing market

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Addressable Market for Hazer

¹International Energy Agency (IEA) - The Future of Hydrogen

²DNV (June 2022) – 'Hydrogen forecast to 2050'





Clean H₂ technology with strong competitive advantage

Innovative low emission methane pyrolysis technology designed to produce clean hydrogen and graphitic carbon.

Existing Technologies

Steam Methane Reforming (SMR)



Significant CO₂ emissions

- Most widely used process for the generation of hydrogen (~95%)
- High CO₂ emissions
- Requires CCS* to address emissions; expensive and difficult

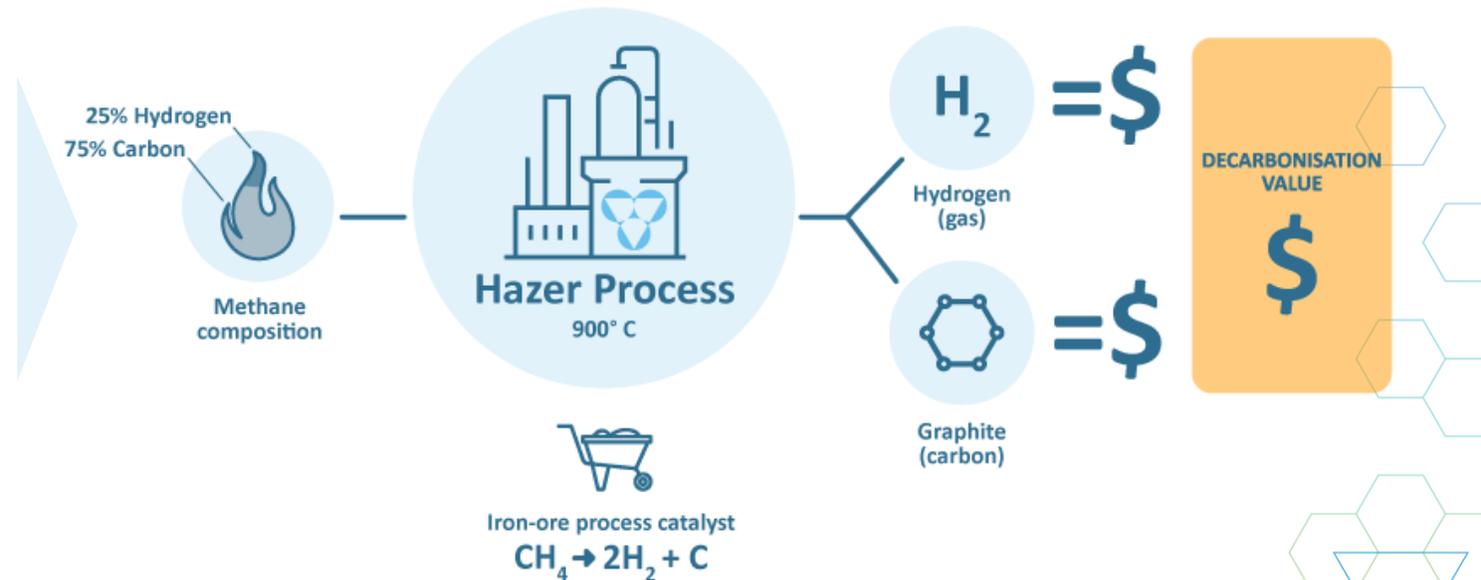


Electrolysis



Energy intensive process

- 7x more energy intensive than SMR
- Only low emission if 100% renewable energy



*CCS = Carbon Capture & Storage. Requires geological formations for CO₂ sequestration

Technology upscaling...

Rapid development since company founding.

(<1g* batch)



2007–2013

- Bench scale testing**
- University of Western Australia
 - PhD (Dr. Andrew Cornejo)
 - Concept evaluation

(<100g* batch)



2016–present

- Scaled up bench scale**
- University of Sydney
 - Catalyst kinetics and process research

(~1 Kg* batch)



2017

- Bench scale fluidised bed**
- University of Sydney
 - Conceptual testing of fluidised bed concept

(~<2 kg/hr* semi-continuous)



2017–2021

- Pilot Plant**
- Sydney and Kwinana (Perth)
 - Fluidised bed with optimized conditions and catalyst injection

(< 60kg/hr* continuous)



2022

- Commercial Demonstration Plant (CDP)**
- Perth, Australia
 - End-to-end continuous plant with biogas feed

*Combined product scale





...and clear commercial pathway

100tpa Hazer Commercial Demonstration Plant


May 2020
 ARENA funded (A\$9.4m) using biogas feedstock
2020–2022
 Construction completed

2023
 First hydrogen targeted



25x
CONCURRENT
SCALE-UP

2,500tpa Burrard-Hazer Hydrogen Project Canada


Feb 2022
 MOU with Suncor / Fortis and C\$8m Canadian government funding

May 2022
 Hatch appointed for design and build

2025
 Targeted RFSU



100,000tpa+ Commercial Plant

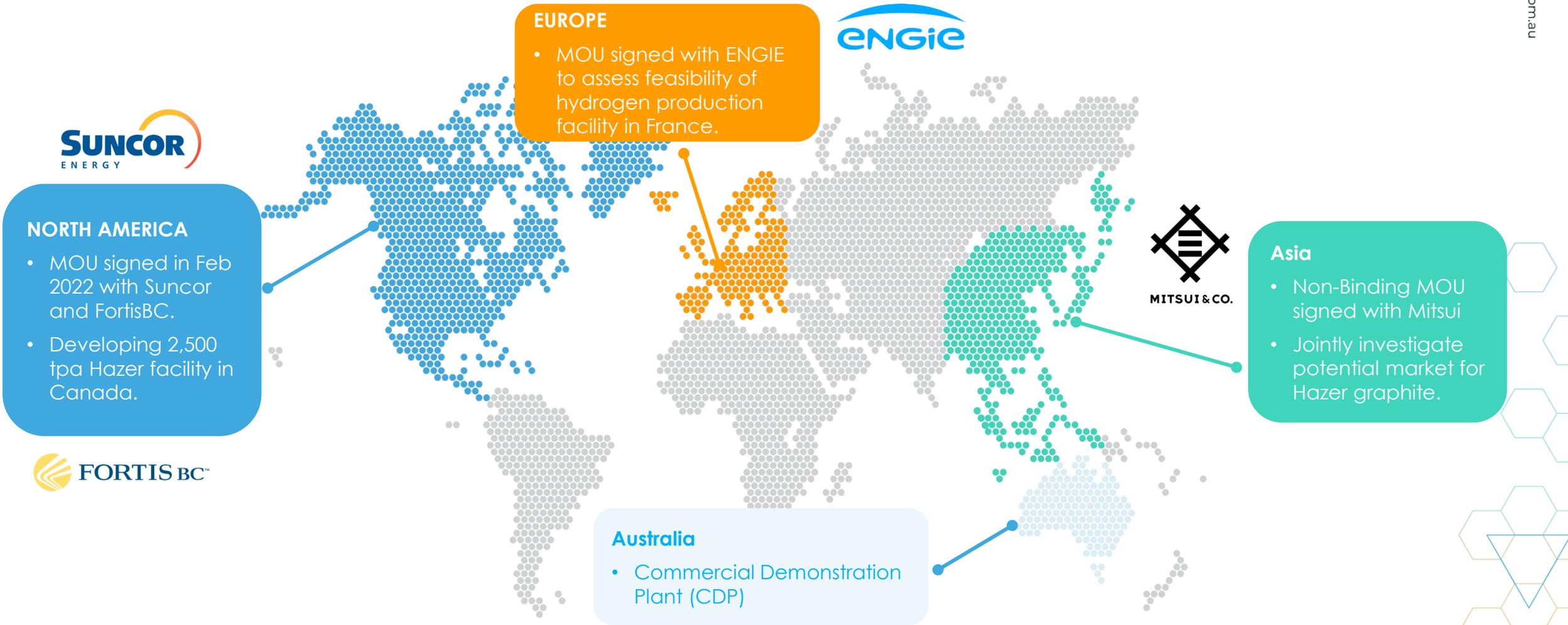
2025+
Commercial Scale

Target Markets
North America, Europe, Asia





Establishing a presence in target markets





Unlocking the value of our graphite



- Mitsui & Co is a leading international trading and investment group based in Japan.
- MOU signed with Mitsui to jointly investigate the market for Hazer graphite.
- Explore possible customers, applications and partners in Asia, Oceania, Northern America, Europe and the Middle East.
- Focus on hard to abate sectors such as steel making and chemical industries.

JAPAN Hydrogen & Decarbonisation Strategy



Committed to net zero carbon by **2050**, including hard to abate sectors



Steel industry accounts for **40%** of total CO₂ emissions from industrial sectors



Launch of **Green Innovation** Fund (approx. USD 16 billion)





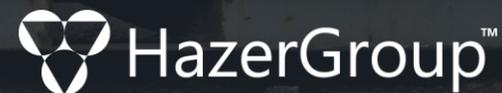
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