

INVESTOR WEBINAR PRESENTATION

PERTH, AUSTRALIA; 23 October 2024: Hazer Group Ltd ("Hazer" or "the Company") (ASX: HZR) is holding its Investor Webinar commencing at 8:00am (AWST) / 11:00am (AEDT) today.

The presentation materials are attached for the information of investors and can also be accessed via the "Announcements" page of the Company's website: www.hazergroup.com.au.

This announcement was authorised for release by the Board of the Company.

[ENDS]

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About Hazer Group Ltd

Hazer Group is an Australian technology company, driving global decarbonisation efforts with the commercialisation of the company's disruptive world-leading climate-tech. Hazer's advanced technology enables the production of clean and economically competitive hydrogen and high-quality graphite, using a natural gas (or biogas) feedstock and iron-ore as the process catalyst.

Hazer Group Limited - Social Media Policy

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ASX:HZR

Hazer Group

Q1 FY25 Investor Webinar

Wednesday, 23 October 2024





Disclaimer

Important information This presentation has been prepared by Hazer Group Limited ("Hazer" or "the Company")

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Authorisation This document has been authorised for release by the Board of the Company.



Agenda

Item
Q1 FY25 highlights
Update on Commercial Demonstration Plant (CDP) test program
Progress on commercial partnerships
Competitive positioning
Corporate update



Q1 FY25 Highlights





Building the foundations for commercialisation

1

Strong CDP performance

CDP testing program continuously delivering on operational milestones; tech-ready for end of 2024

2

First payment for engineering services

First payment for engineering services received from the Fortis BC project

3

Milestone IP on the Hazer Process

Strengthening IP protection & coverage for technology commercialisation

4

Global clean H₂ tech leader

Hazer has a unique competitive edge and viable alternative to “green” H₂



Commercial Demonstration Plant (CDP)



Commercial Demonstration Plant snapshot

Worlds first fully-integrated demonstration of Hazer's technology



CDP Site – Perth, Australia
100 tpa H₂; 380 tpa Hazer graphite

Project Summary & Update

- First H₂ & graphite achieved in Jan 2024¹
- Over 360hrs of continuous hot operations
- Continuously scaled performance test program scheduled throughout 2024 to achieve commercial readiness at year end
 - Operate at test conditions
 - Gather process and performance data
 - Shutdown and inspect key equipment
 - Implement improvements for subsequent runs

¹ Refer to ASX Announcement dated 31 January 2024 "Hazer Achieves First Hydrogen and Graphite at Commercial Demonstration Plant".

CDP achievements during the quarter

Demonstrating operational excellence, technological leadership, and optimized production



Strong Operational Performance

- +360 hours of continuous operation & stable production
- Production uptime of over 97%
- Positive reactor materials inspection results following 800+ hours of operation



Technological Advancements

- CH₄ conversion nearing design targets
- Proven Fluidised Bed Reactor performance supports commercialisation strategy
- Process and reactor performance aligns with expectations



Production and Optimisation

- Large quantities of graphite produced; ongoing optimisation before shipping
- CDP results reinforce scalability and reliability of technology for commercial applications

CDP performance test program delivery on track

Targeting commercial deployment readiness in 2024

Commercial Demonstration Plant (CDP)



CDP Site - Perth, Australia

Continuous Operation

- 24hr run completed
- 100+hrs extended operation run
- Solids handling demonstration

Scale-up validation

- Validate reactor sizing / H₂ production
- Demonstrate graphite purity and catalyst consumption requirement

Hydrogen and Graphite Production

- Produce hydrogen and graphite
- High-volumes of graphite for product qualification

■ Complete ■ On Track

Global Commercial Projects



Commercial Partnerships



First payment for engineering services on BC project

Advancing collaboration with FortisBC ahead of FID in 2025

Payment Milestone

- First payment of ~A\$0.4 mln received for engineering services related to the FortisBC H₂ production project in Canada
- The payment is part of the binding agreement for a facility designed to produce up to 2,500 tpa of clean hydrogen, with total expected payments exceeding A\$1.8 million.
- Payments will continue until the Final Investment Decision (FID)
- This milestone demonstrates FortisBC's commitment and the maturity of Hazer's business model, as the company advances its commercialisation strategy globally.



Overview of key scale-up development projects



BC, Canada



Nagoya, Japan



Montoir, France



Pohang, Korea

Description	- Project Development Agreement Signed - New site selection in progress - Likely H₂ to be used at site location	- Existing LNG import terminal or power station site - H₂ as fuel for power generation, industry feedstock and mobility	- Existing LNG import terminal site identified - H₂ as fuel for power generation, industry feedstock and mobility	- Integration into low carbon steel making - H₂ as reductant in POSCO green-steel process - Graphite multiple uses
Partners				
Expected H₂ Production • Phase 1 • Phase 2	2,500 tpa 100,000+ tpa	2,500 - 10,000 tpa Up to 100,000 tpa	10,000+ tpa 50,000+ tpa	Medium scale demonstration Large scale deployment
Hazer Operating Model	Licensing	Licensing	Licensing	Licensing
Targeted Start-up (phase 1)	2026-2027	2027-2028	2027-2028	2030+

Competitive Positioning



Ramping up corporate activity to strengthen market position

Expanding global visibility and engagement in key investor and industry events

Energy Tech Venture Forum

- Showcasing Hazer at major US climate-tech investor forum
- Engaged with major energy players & investors
- Global leader in the clean H₂ space and peer group
- Enhanced exposure in the key North American market

Gastech

- World's largest energy conference for Natural Gas & LNG
- LNG demand to increase over 50% through mid-2030's
- Gas is key to the energy mix and acting as agent of decarbonisation
- H₂ to play a crucial role in decarbonising hard-to-abate sectors
- Fading expectations of "green" H₂

Hazer Market Position

- **Hazer a front-runner** in the methane pyrolysis space
- **De-risked technology** with operability track-record
- **Growing customer base**
- **Low-cost** alternative to "green" H₂
- **Graphite** a real value differentiator
- Fluid bed reactor enables **proven scale-up potential**

Hazer's growing market opportunity

The challenge for “green” hydrogen...

FINANCIAL REVIEW

Green hydrogen too ‘expensive and inefficient’: Finkel

FINANCIAL TIMES

Fortescue cuts 700 jobs and drops green hydrogen target

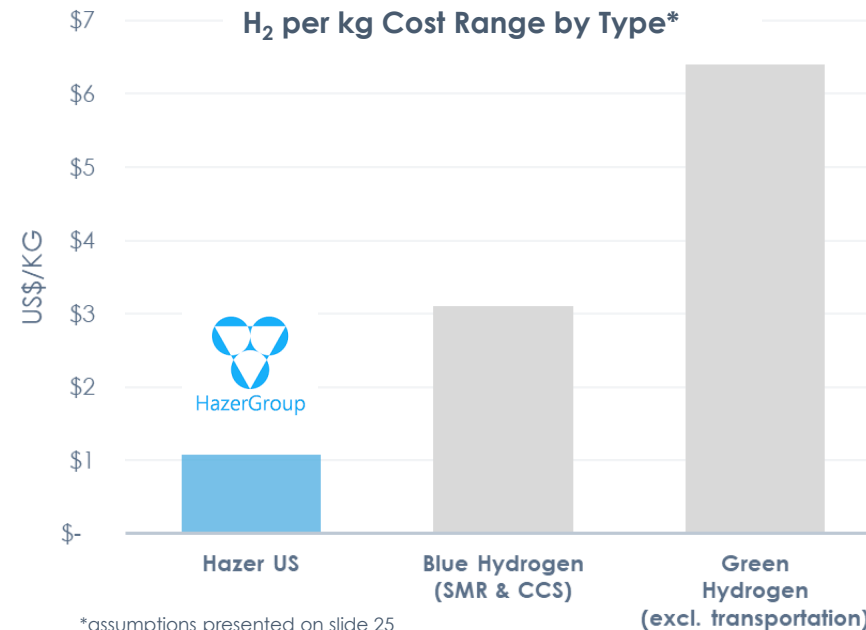
THE AUSTRALIAN

Writing on the wall for green hydrogen

...is the opportunity for Hazer

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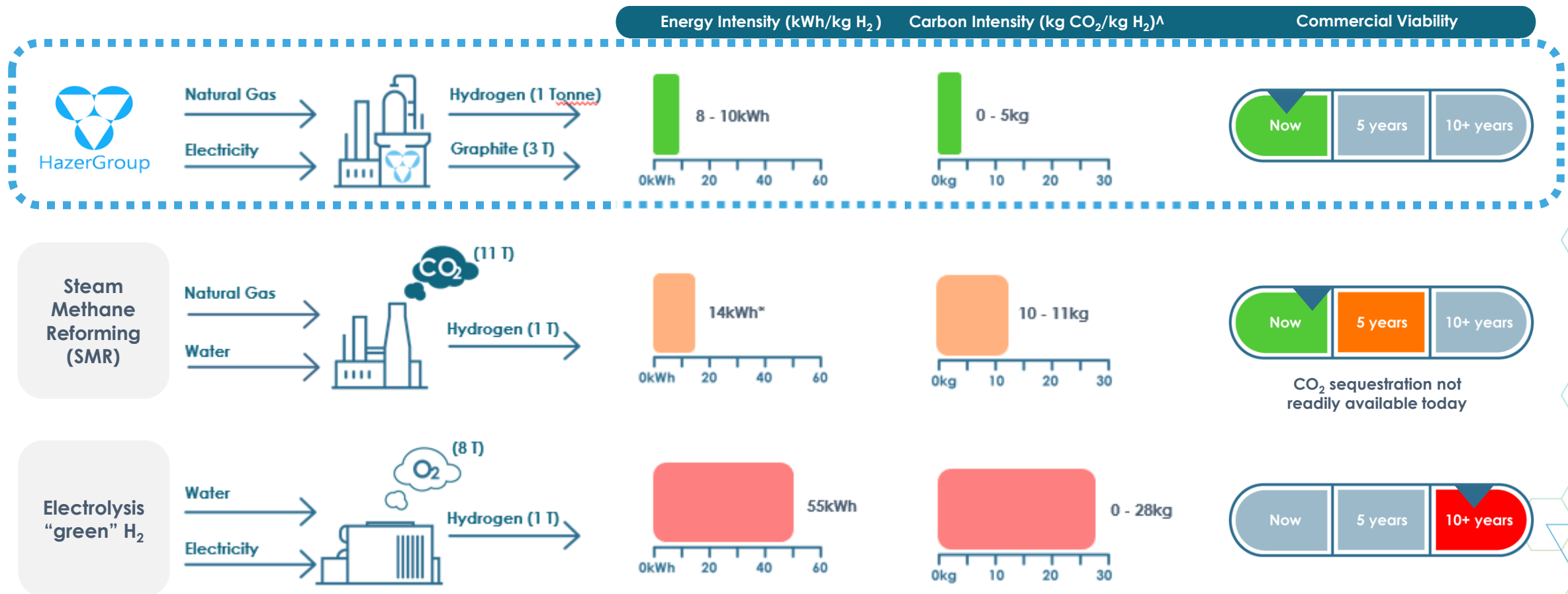
Hazer's disruptive clean hydrogen tech set to make prime time debut





Methane pyrolysis: a fast, affordable path to clean H₂

Hydrogen production technology comparison



[^] North America & Asia electricity grids *Energy predominantly from fuel
~1 kWh/kg H₂ electricity consumption

Corporate Update



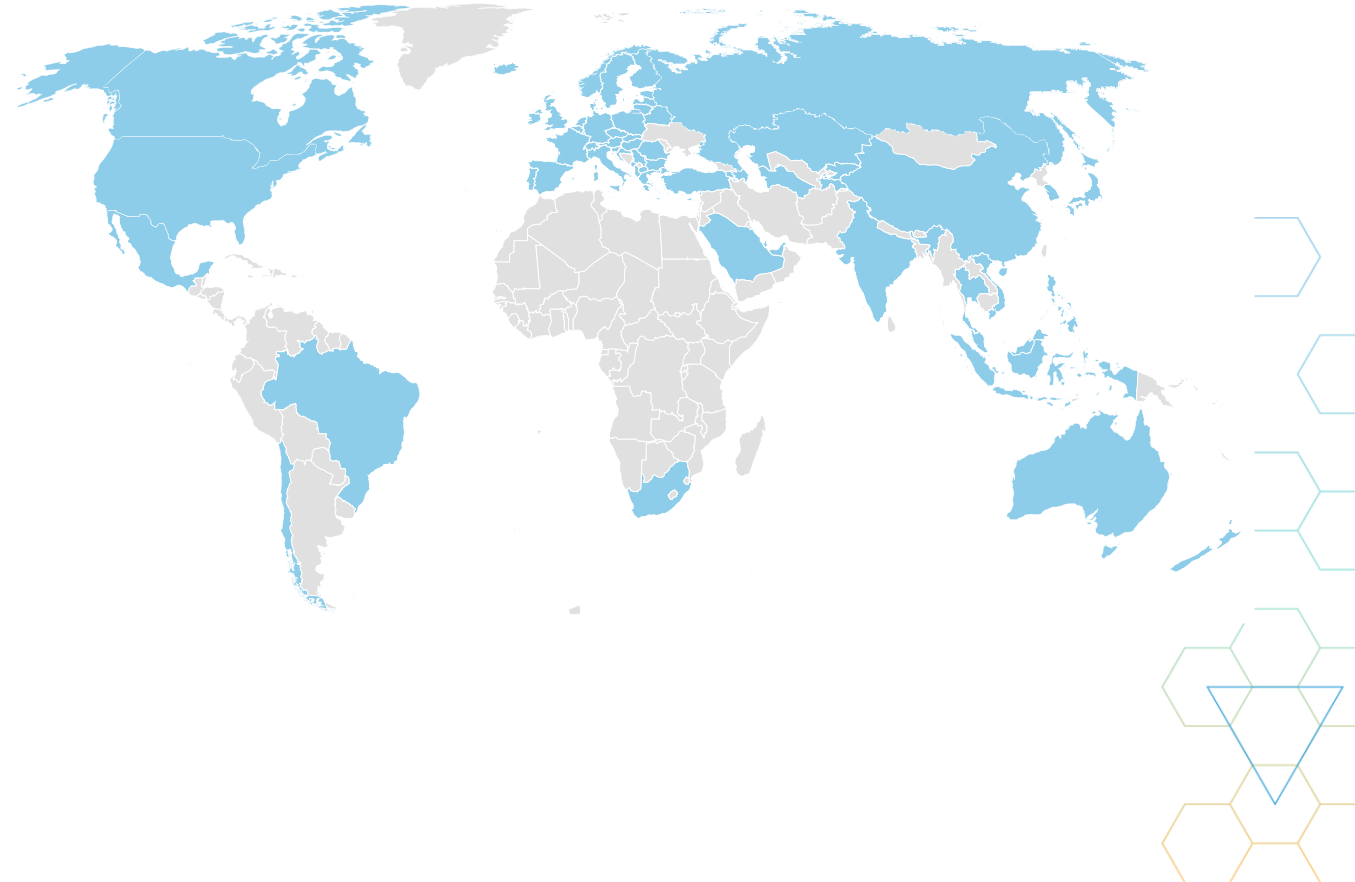


Strengthening our IP protection

Reinforcing our competitive edge through robust Intellectual Property protection

Extensive global patent portfolio

- 70+ patents and applications across five technologies
- WIPO* confirms Hazer process satisfies patentability requirements for catalyst-based pyrolysis
- Strengthens IP protection coverage for technology commercialisation
- Eurasian approval for key patent family accepted

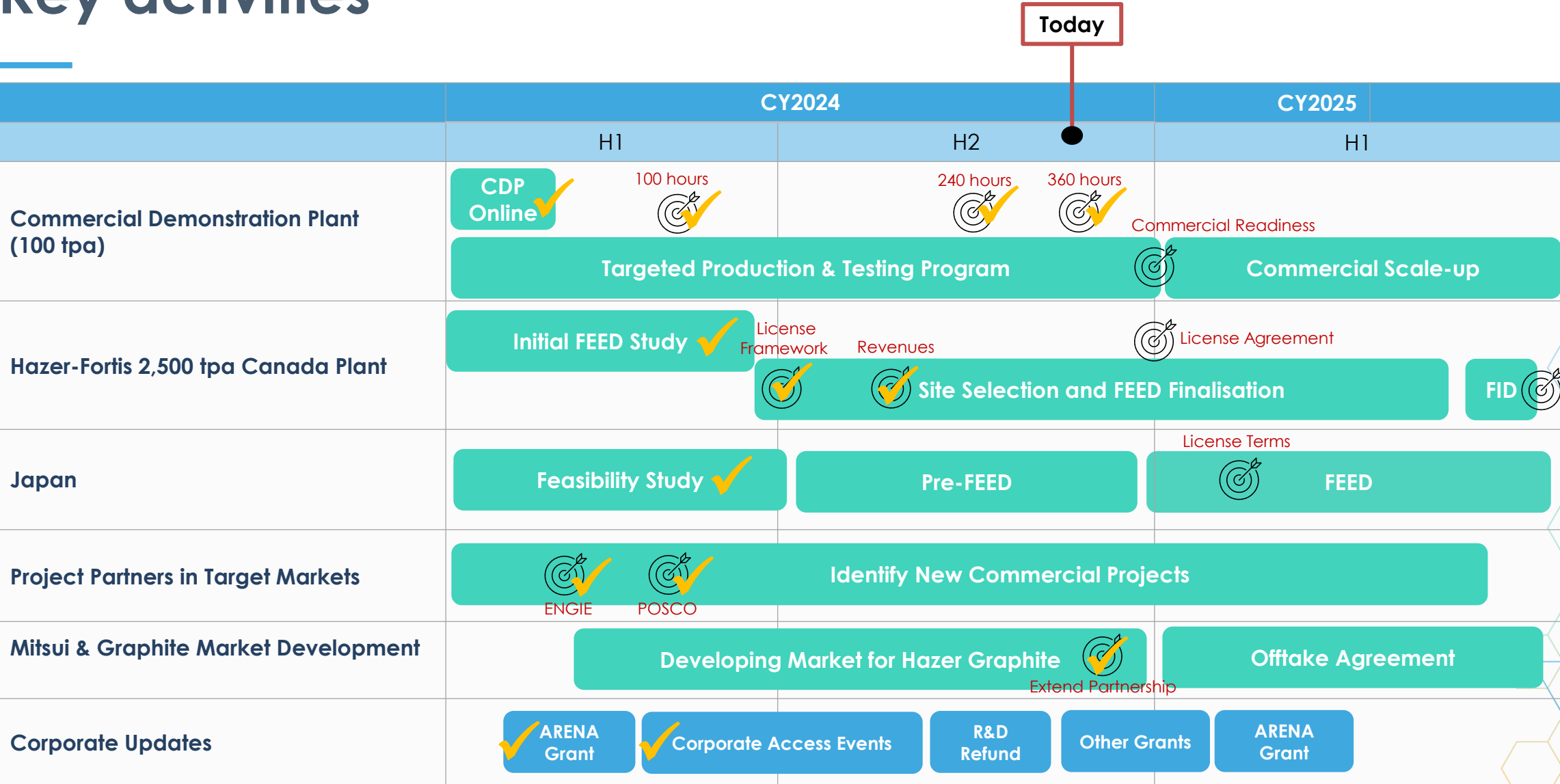


*WIPO is the World Intellectual Property Organisation a specialist body of the United Nations

Blue shading on map depicts IP coverage



Key activities



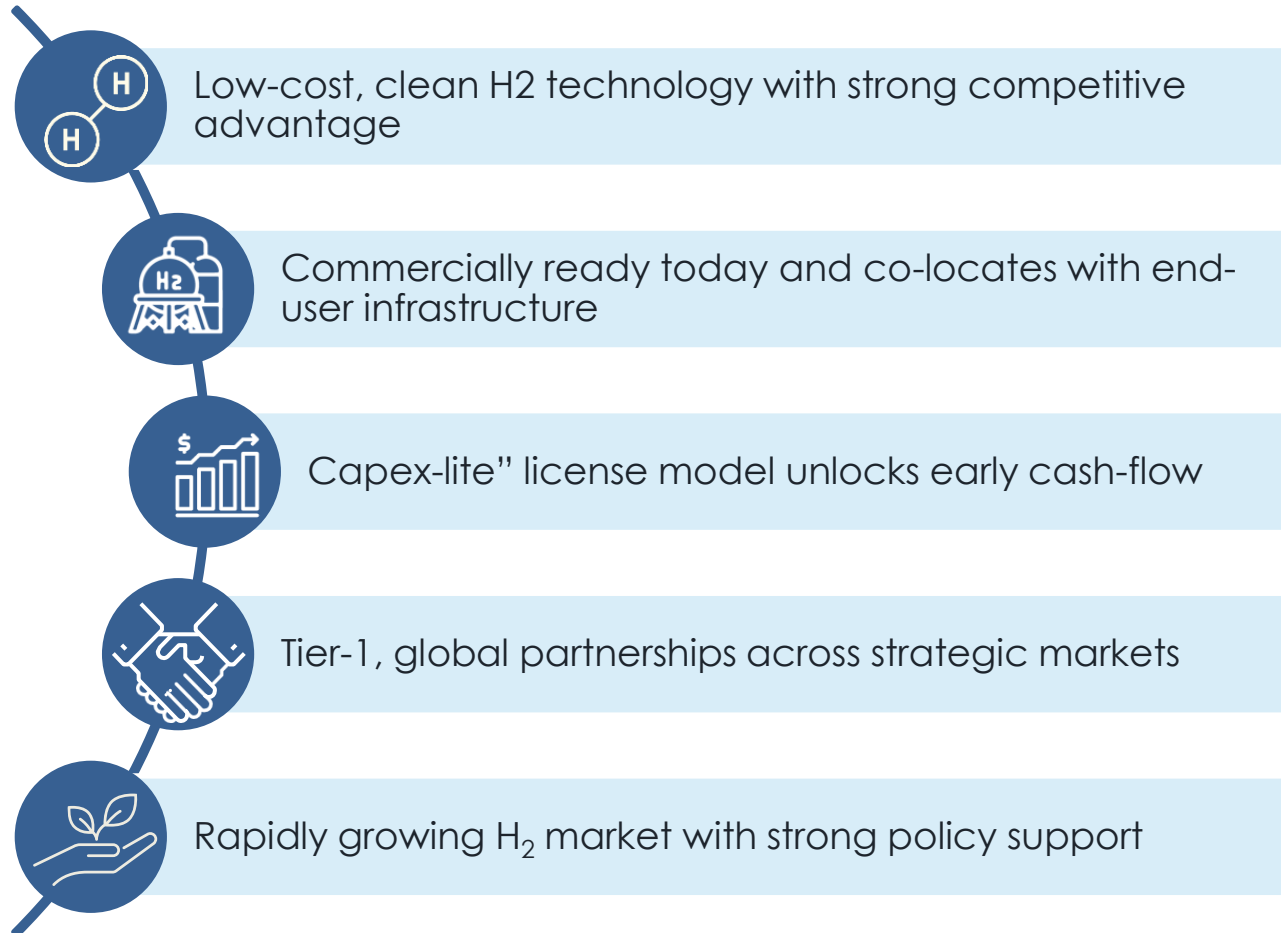


Upcoming corporate access

- **28 October** – High Net worth Investor Lunch – Melbourne
- **29 – 30 October** – 13th Australian Microcap Investment Conference – Melbourne
- **22 November** – Annual General Meeting (AGM), hybrid format – Perth



Investment highlights



CDP Site - Perth, Australia

Q&A





HazerGroupTM

Hazer Group Ltd

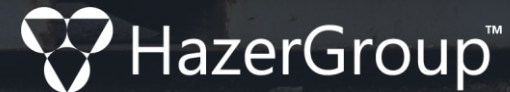
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Abbreviations and units used

ARENA Australian Renewable Energy Agency

CCS Carbon Capture & Storage

CDP Commercial Demonstration Plan

IP Intellectual Property

FID Final Investment Decision

KTPA thousands of tonne per annum

LNG Liquefied Natural Gas

MOU Memorandum of Understanding

MMBTU Million British Thermal Units (A thermal unit of measurement for Natural Gas)

MTPA millions on tonne per annum

PDA Project Development Agreement

SMR Steam Methane Reforming

TPA tonne per annum





Assumptions and notes

Slide 15 – H2 per kg cost range by type chart

Sources: Company analysis and projections, modelling a range of notional outcomes:

1. Feedstock gas - North America ~US\$2.0/mmbtu, Asia Pacific US\$10/mmbtu, Europe ~US\$8.5/mmbtu
2. ~US\$400/tonne graphitic carbon revenue, offset against operating expenses.
3. No Government funding, tax incentives or debt funding upside benefit included.
4. Learning curve of 30% is applied to the low-end cost estimate to reflect process engineering, operating, maintenance, logistics and other expected efficiencies.
 - Rationale for inclusion: <https://hbr.org/1964/01/profit-from-the-learning-curve>
 - Learning curve applicable to construction projects(closest analogue). Supports ranges of 60-95% (inverse being 5-40%):
 - <https://www.fgould.com/americas/articles/applying-learning-curve-theory-construction-cost/>
5. Assumes that the Commercial Demonstration Plant demonstrates that the Hazer process technology is effective at producing graphitic carbon and high purity hydrogen consistently and reliably as has occurred in prior smaller size pilot projects

3rd party reports:-

1. Green hydrogen production cost: IEA Global Hydrogen Review 2022, p.92. 2021 Wind Onshore and Solar PV average price of US\$6/kg.
2. Blue hydrogen production cost: <https://about.bnef.com/new-energy-outlook/>

