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Hazer Group Ltd

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Investment highlights

Low cost, low emissions H₂ production technology company positioned to play a leading role in global decarbonisation

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Low-cost, Low-emissions, Proprietary Technology
- 

Compelling Economics & Returns
- 

Global Tier-1 Partnerships Across Strategic Markets
- 

Advanced Technology Readiness & Proven Scale-up
- 

Clear Commercial Pathway & Capex-lite
- 

Graphite Production Diversifies Earnings
- 

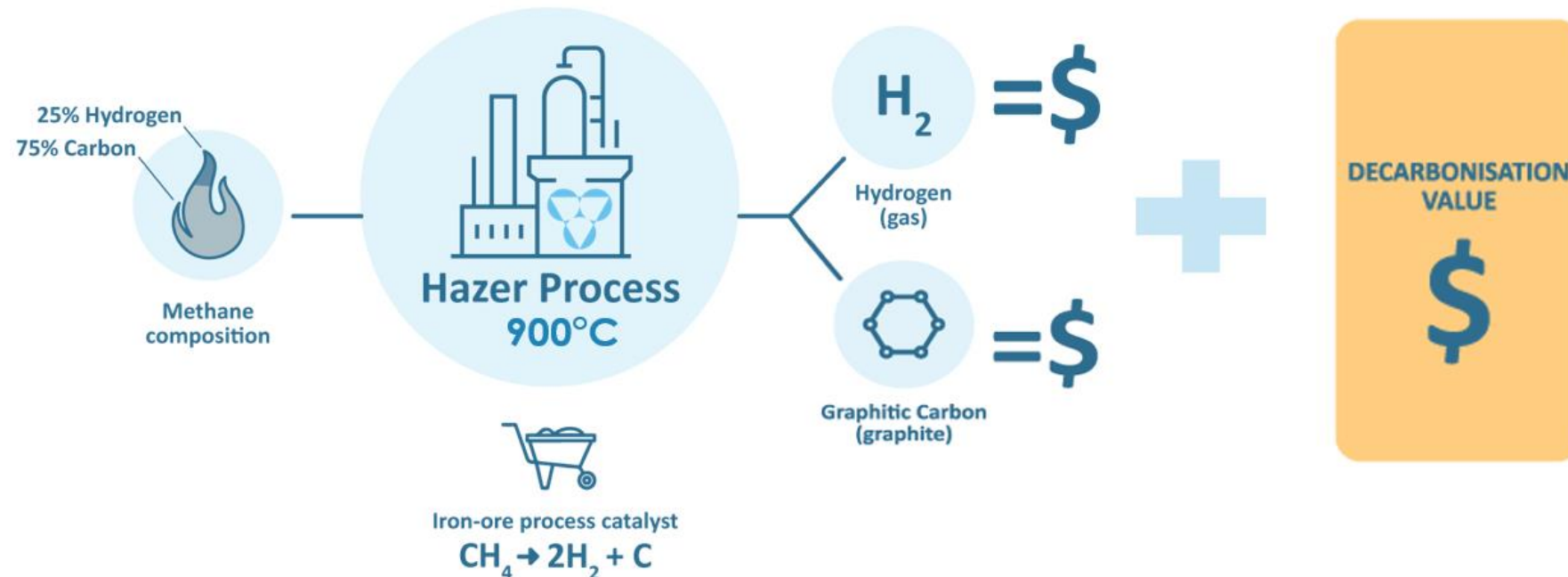
Rapidly Growing H₂ Demand
- 

Government & Policy Support

Hazer's competitive technology advantage

Innovative low emission, low-cost methane pyrolysis technology producing clean hydrogen and graphite

- Hazer Group Limited is a technology development company undertaking the commercialisation of the Hazer Process.
- The Hazer Process enables low temperature conversion of natural gas and similar methane feedstocks, into hydrogen and high-quality graphitic carbon, using iron ore as a process catalyst.



1 Low cost & low emissions hydrogen

Hazer well positioned as a low-cost, low-emissions hydrogen technology

Existing Technologies

Steam Methane Reforming (SMR)

Significant CO₂ emissions

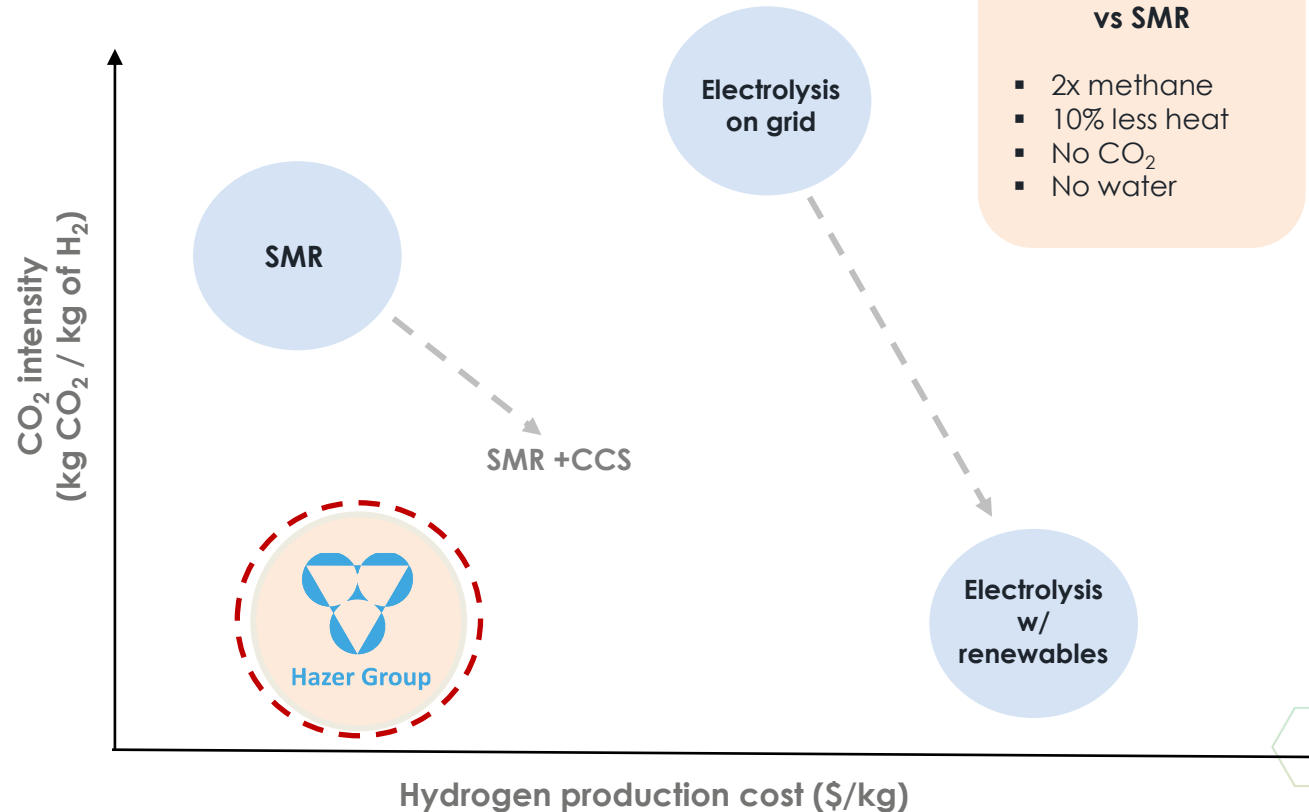
- Most widely used process for H₂ generation (~95%)
- High CO₂ emissions
- Requires CCS* to address emissions



Electrolysis

Energy intensive process

- 7x more energy intensive than SMR
- Only low emission if 100% renewable energy
- Requires significant water and renewable energy



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

2 “Plug-in” technology using existing infrastructure

End-use deployment and application of the Hazer Technology eliminates H₂ transport risk and reduces cost



Conceptual design of Hazer facility co-located with 3rd party refinery
(Source: stock image not Hazer infrastructure)

- Eliminates requirement for hydrogen transportation cost and risk
- Co-located with end-user infrastructure – such as LNG facilities, refineries etc.
- Ability for shared services and lower operating cost model



3

Global partners & projects

Tier-1 partners developing commercial projects in North America, Europe and Asia-Pacific



HATCH

wood.



3

Overview of key scale-up development projects







Canada



Chubu, Japan



Montoir, France

Description	<ul style="list-style-type: none"> Utilises existing fuel terminal site H₂ to be used in gas blending 	<ul style="list-style-type: none"> Existing LNG import terminal or power station site H₂ as fuel for power generation, industry feedstock and mobility 	<ul style="list-style-type: none"> Existing LNG import terminal site identified H₂ as fuel for power generation, industry feedstock and mobility
Partners		 	
Expected H₂ Production	<ul style="list-style-type: none"> Phase 1 Phase 2 	<ul style="list-style-type: none"> Phase 1 Phase 2 	<ul style="list-style-type: none"> Phase 1 Phase 2
Hazer Operating Model	Project partner & licensing	Licensing	Licensing
Targeted Start-up (phase 1)	2025	2027-2028	2027-2028

4

Advanced technology readiness

Rapid development since company founding and advancing Tech Readiness Level (TRL)

(< 60kg/hr* continuous**)

(<1g* batch)



2007–2013

Bench scale testing

- University of Western Australia
- Concept evaluation

(<100g* batch)



2016–present

Scaled up bench test

- University of Sydney
- Catalyst kinetics and process research

(~1Kg* batch)



2017

Bench scale fluid bed

- University of Sydney
- Conceptual testing of fluidised bed concept

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



2017–2021

Pilot Plant

- Sydney and Perth
- Fluidised bed with optimized conditions and catalyst injection



2022–2023

Commercial Demonstration Plant (CDP)

- Perth, Australia
- End-to-end continuous plant with biogas feed
- Start up planned 2023

2025+

Key Projects

- Canada
- Chubu, Japan
- Montoir-de-Bretagne, France

Project Development Pipeline

FORTIS BC™

CHIYODA CORPORATION

CHUBU Electric Power

ENGIE

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Strategic Focus

4

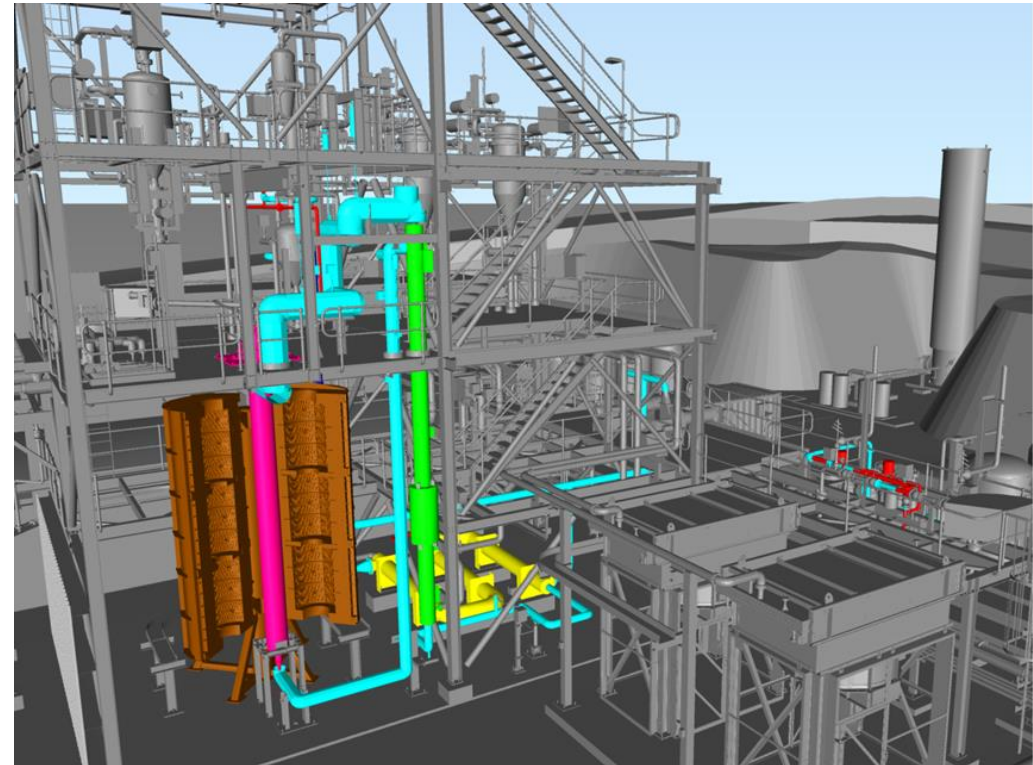
Commercial Demonstration Plant (CDP) current status

Milestones to Ready for Start-up (RFSU)

- ☒ Phase 1 plant construction
- ☒ Phase 1 commissioning, testing & debugging
- ☒ Heat exchanger materials delivery
- ☒ Mark-1 reactor forging & heat treatment
- ☒ Hot construction planning and contracts
- ☒ Start-up approvals and permits

On-track

- ☐ Hot equipment fabrication & installation
- ☐ Commissioning, RFSU and production



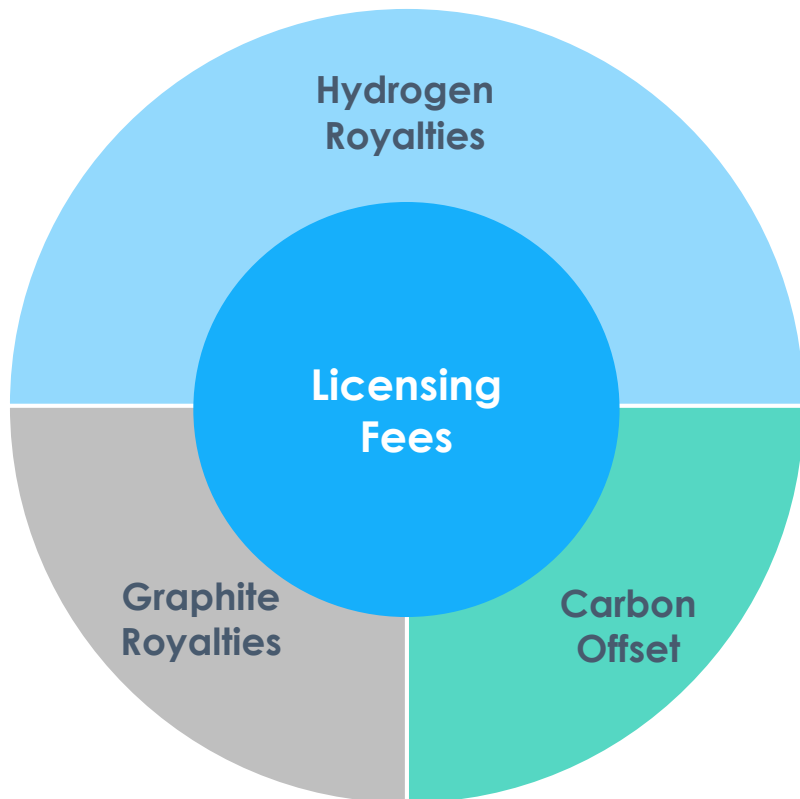
CDP model highlighting hot construction work-scope underway

5

“Capex-lite” business model enables early free-cashflow

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Hazer business plan premised on licensing and royalty revenues avoiding large-scale capex exposure



- One technology, two valuable markets
- Flexible combination of license fees and royalties
 - Fixed annual license fees commensurate with plant size
 - Royalties a percentage of H₂ and graphitic carbon revenues
- “Capex-lite” approach

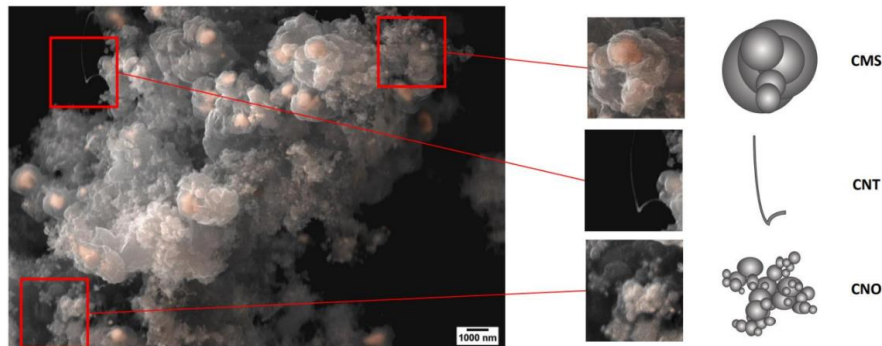


6

Graphite production diversifies earnings

A synthetic, low emissions product with differentiated morphology and properties

- Highly structured vs amorphous carbon black
- Iron inclusions produce magnetic graphite
- Low production emissions
- Up to 95% graphite purity
- High thermal & electrical conductivity
- Low sulphur & low ash content



Mitsui MOU

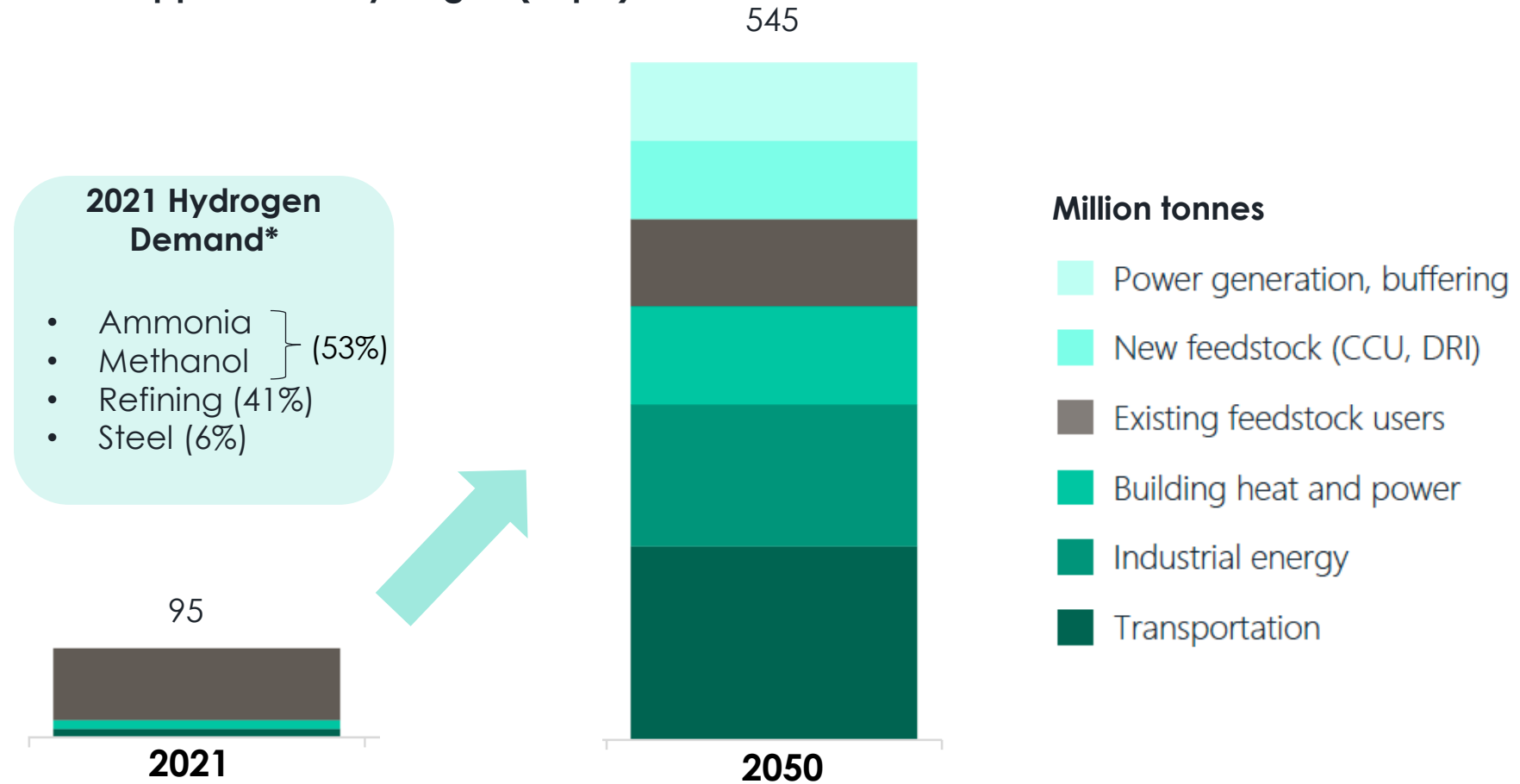
- A leading international trading and investment group based in Japan
- MOU signed to jointly investigate the market for Hazer graphite
- Exploring possible customers & applications in Asia-Pac, Northern America, Europe and Middle East



7

Hydrogen market set to grow over 5x by 2050

Global energy demand supplied with hydrogen (Mtpa)



Source: Hydrogen Council & EIA

* Parenthesis represent share of 2021 global hydrogen demand (Goldman Sachs)

8

Significant fiscal policy support across key markets

Government funding & incentives support Hazer technology commercialisation

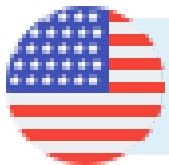
POLICY SUPPORT



Hydrogen Headstart Program



Canadian Net-Zero Emissions Accountability Act



**Inflation Reduction Act (IRA)
National Hydrogen Strategy**



Green Deal & GDIP



METI Green Innovation Fund (\$16bln)

HAZER ELIGIBILITY

- ✓ Australia ARENA (\$9mln) & R&D tax support
- ✓ Hydrogen Headstart program commits \$2bln to industry

- ✓ \$8mln CleanBC provincial government grant secured
- ✓ Further provincial and federal level funding available

- ✓ Up to \$3/kg H₂ production tax credit
- ✓ Australia-US Climate Compact facilitates access

- ✓ ENGIE PFS confirms Hazer meet EU thresholds for low emissions hydrogen
- ✓ Funding options being explored by partnership

- ✓ Japanese Government support likely for Chubu/Chiyoda Project
- ✓ Funding options being explored by partnership





Key Activities

	CY2023		CY2024
	H1	H2	H1
Commercial Demonstration Plant (100 tpa)	<div>Procurement, Fabrication, Engineering & Installation</div> <div>Today</div> <div>Ready for Start-up</div> <div>Targeted Production & Testing Program</div>		
Hazer-Fortis 2,500 tpa Canada Plant	<div>FEED Studies in Canada and Targeted FID</div>		
New Potential Projects in Target Markets	<div>Identify New Commercial Projects</div> <div>Japan France</div> <div>Japan & France Project Development Plans</div>		
Mitsui & Graphite Market Development	<div>Developing Market for Hazer Graphite</div>		<div>Offtake Agreement</div>
Corporate Updates	<div>ARENA Grants</div>	<div>R&D Rebates</div> <div>Corporate Access Events</div>	<div>ARENA Grants</div>

Compelling investment case



Advanced, disruptive technology with strong competitive advantage. 1 technology serving 3 markets



Co-located with end-user infrastructure enabling shorter pathway to CO₂ reductions for hard-to-abate sectors



Clear commercial pathway, capex-lite model unlocks early cash-flow and attractive returns



Global partnerships across strategic markets with Tier-1 partners



In the sweet spot of the energy transition and rapidly growing hydrogen market



Artist impression of Hazer facility co-located with 3rd party refinery
(source: stock image not Hazer infrastructure)





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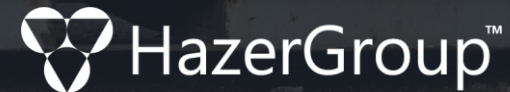
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