

HAZER GROUP LTD

AGM PRESENTATION – NOVEMBER 2017



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OVERVIEW OF ACHIEVEMENTS 2017



2017 ACHIEVEMENTS

LABORATORY DEVELOPMENT

DEC
2016

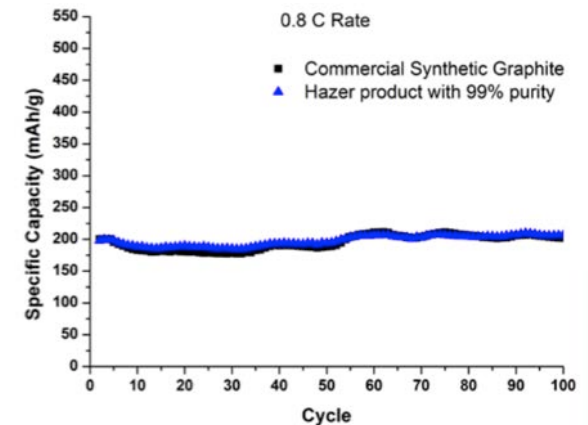
Superior first discharge results show Hazer graphite outperforms natural and commercial synthetic

MARCH
2016

Hazer graphite shows excellent performance over 50 – 100 cycles in lithium-ion batteries

AUG
2016

Hazer produces 99.99% ultra-high purity synthetic graphite



2017 ACHIEVEMENTS

SCALE-UP MILESTONES

JAN
2017

Construction begins on Pre-Pilot Plant (PPP)

MARCH
2017

Hazer completes construction of PPP facility

APRIL
2017

First hydrogen and graphite produced from the PPP

JULY
2017

Hazer completes commissioning of PPP

NOV
2017

Hazer completes first catalyst addition in PPP to demonstrate preliminary continuous operation



2017 ACHIEVEMENTS

CORPORATE & COMMERCIAL

MARCH
2017

\$5m strategic placement from MinRes

APRIL
2017

Share purchase plan raises additional \$2.1m

OCT
2017

Non-binding HoA with MinRes to develop graphite plant

OCT
2017

MoU signed with Primetals Technologies



2017 ACHIEVEMENTS

INCREASE IN EXPERTISE

FEB
2017

Appointment of Terry Walsh as Non-Executive Director



APRIL
2017

Cobus Malherbe joins as General Manager of Process Development



JULY
2017

Ex-PWC Global Mining Leader Tim Goldsmith secured as new chairman

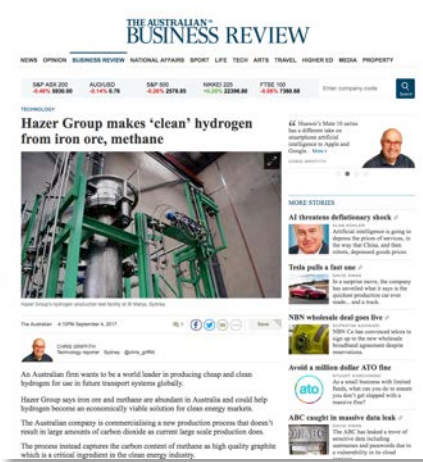
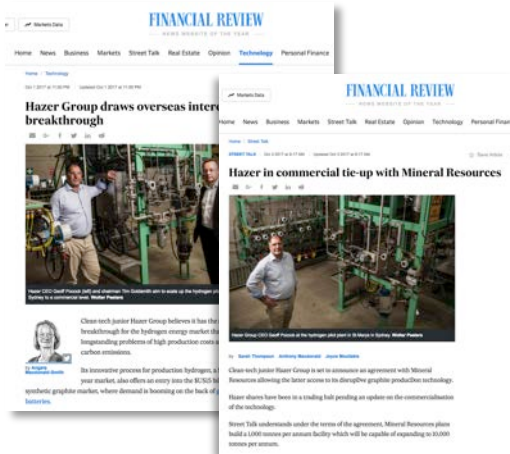


LAST 12
MONTHS

Significant increase in size of technical team

2017 ACHIEVEMENTS

MEDIA & EQUITY RESEARCH COVERAGE



\$1 PRICE TARGET



\$1 PRICE TARGET



The image shows a complex industrial setup. A large, vertical, cylindrical stainless steel vessel is the central component. It is surrounded by a robust green-painted metal frame. Various pipes, valves, and electrical conduits are connected to the vessel. To the right, there is a cluster of electrical components, including a blue terminal block and several wires. The background is a plain, light-colored wall.

SNAPSHOT OF HAZER GROUP LTD

CORPORATE AND MARKET SNAPSHOT



(ASX: HZR, HZRO)

Capital Structure

| | |
|----------------------------------|----------------|
| Current Shares on Issue | 76.5m |
| Restricted Securities | 10.2m |
| Total Tradeable Shares | 66.3m |
| Market Capitalisation @\$0.55 | \$42m |
| Cash @ 30 Sept 2017 | \$6.5m |
| Options | 54.5m |
| Cash From Option Exercise | \$23.0m |

Substantial Shareholders

| | |
|---|------------|
| Mineral Resources Ltd | 10.3m |
| Mr Geoff Pocock (MD) | 4.2m |
| Dr Andrew Cornejo (CTO) | 3.8m |
| UWA | 1.5m |
| Total Top 20 (ASX Listed Shares) | 42% |

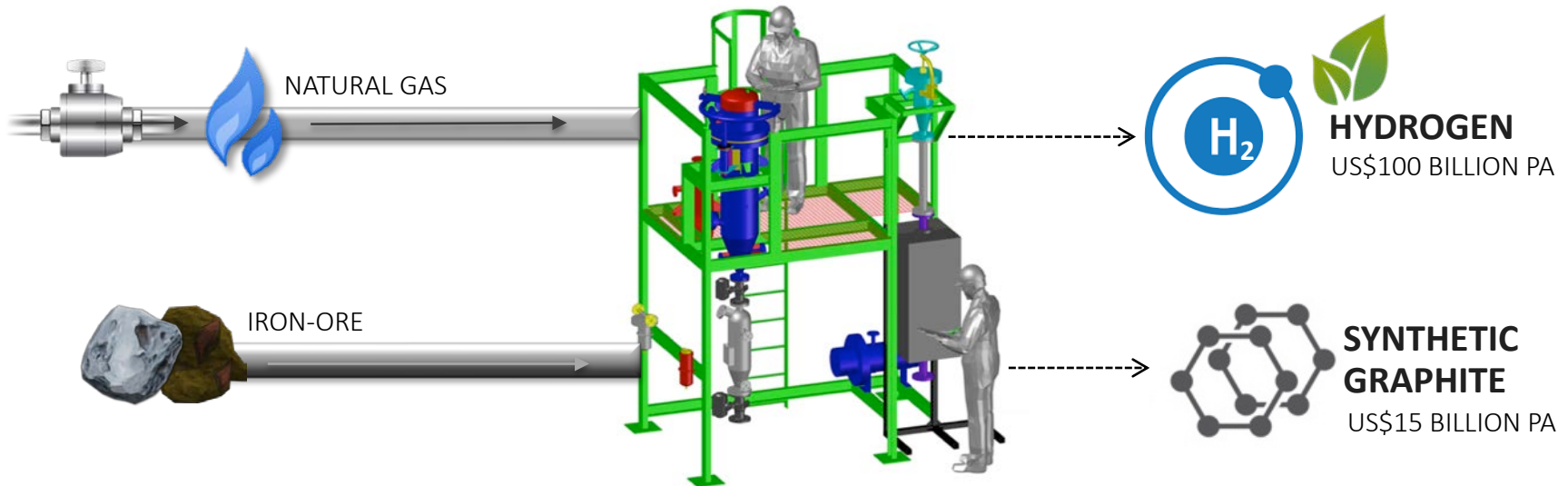
Share Price & Volume

HZR Share price & volume (4 mths)



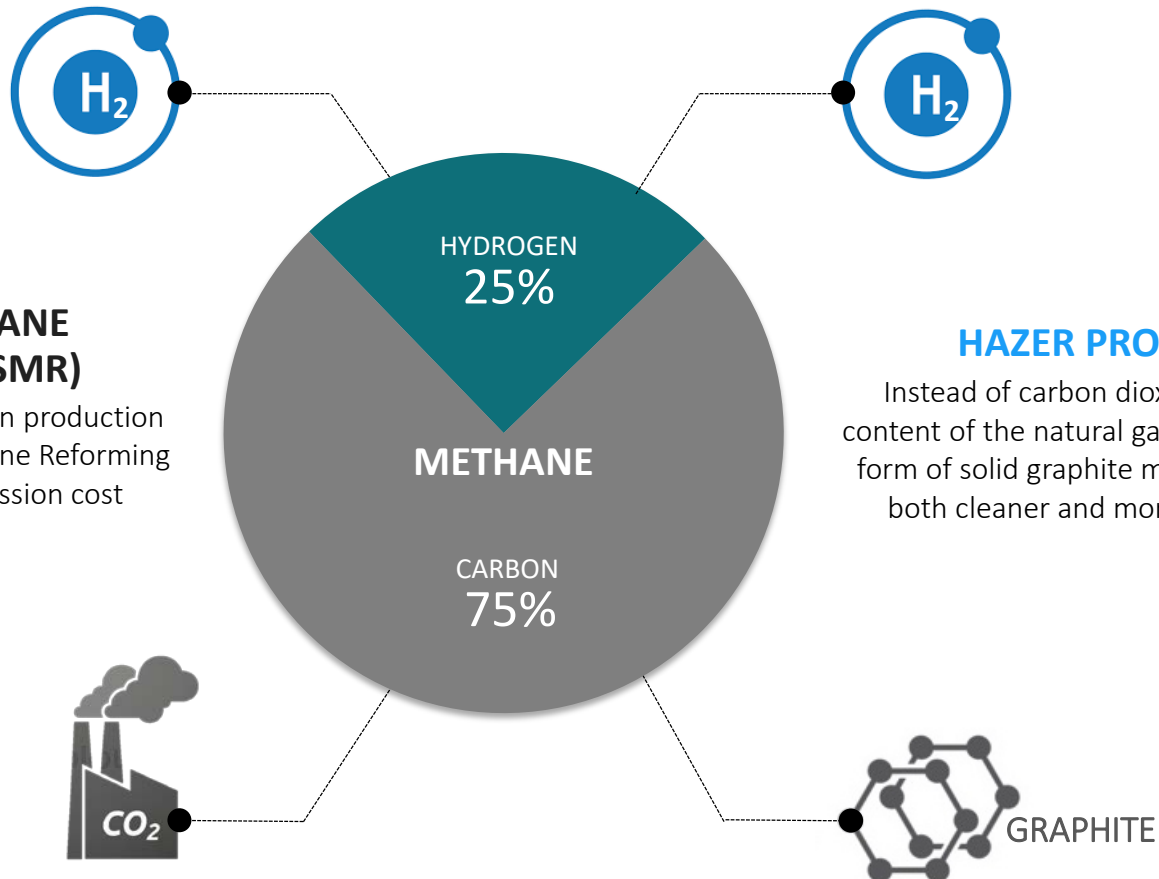
THE HAZER PROCESS

HYDROGEN AND GRAPHITE FROM NATURAL GAS



THE HAZER ADVANTAGE

HAZER CAPTURES ALL THE VALUE OF FEEDSTOCK GAS



STEAM METHANE REFORMING (SMR)

Current large scale hydrogen production processes like Steam Methane Reforming come at a huge CO₂ emission cost

HAZER PROCESS

Instead of carbon dioxide, the carbon content of the natural gas is captured in the form of solid graphite making the process both cleaner and more cost effective

POTENTIAL MARKETS

OPPORTUNITIES IN THREE MAJOR GLOBAL MARKETS



- **Cheaper and cleaner alternative**
- Oil refining, ammonia production, other industrial chemicals
- Currently primarily addressed by fossil fuel reformation processes
- Hazer has potential to deliver significant cost savings and reduced GHG emissions for industrial hydrogen producers



- **Multiple applications**
- Key component of clean energy future ($H_2 \Rightarrow H_2O + \text{energy}$)
- Fundamental cost, energy limitations for existing hydrogen production options
- Fuel cell vehicles, stationary power applications
- Other applications including Carbon Capture and Utilisation (CCU) and synthetic fuels



- **High quality, low cost graphite source**
- Range of industrial materials applications
 - Growth - energy storage (batteries)
- Currently addressed by mining, synthetic graphite production with significant environmental impacts

MOU SIGNED WITH PRIMEMETALS

DEPLOYMENT OF HAZER TECHNOLOGY IN STEEL INDUSTRY

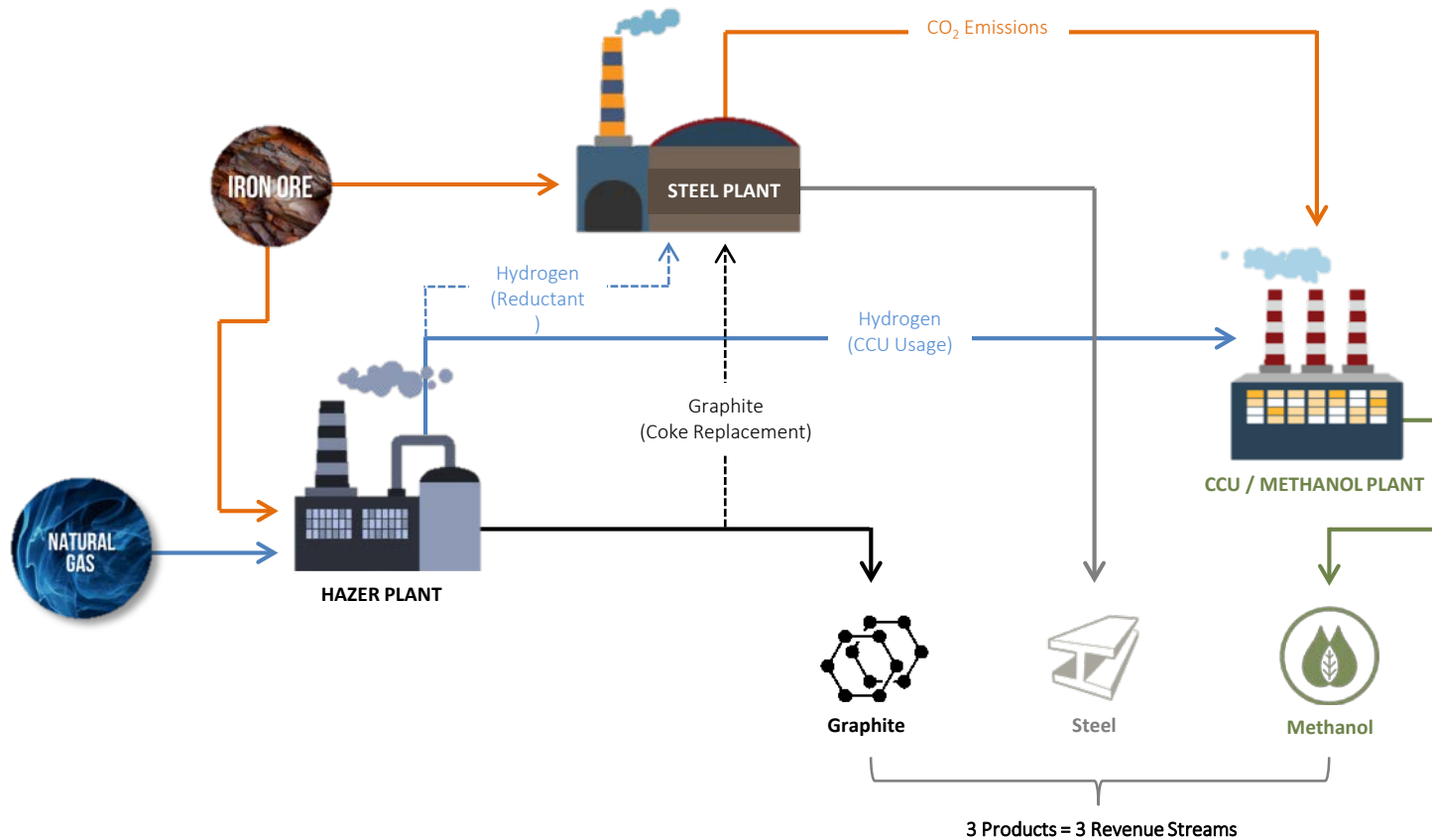


Joint Venture of...  **MITSUBISHI**
HEAVY INDUSTRIES, LTD.  **SIEMENS**

- Hazer has executed an MoU with Primetals Technologies, a leading global engineering company and solution provider for the metals industry
- Joint investigation to assess utilising the Hazer Process to reduce the cost and environmental impact of steel production;
 - Carbon Capture and Utilisation - CO₂ emissions can be captured and chemically converted to valuable downstream products, including methanol or synthetic liquid fuels.
 - Hydrogen as alternative reductant – Use of Hazer’s hydrogen as an alternative to carbon-based reducing agents, significantly reducing the CO₂ footprint of steel production
 - Graphite as alternative to coal - Graphite produced by the Hazer process to be used as a co-reductant and carburiser for steel making, reducing the need for coking coal

CARBON CAPTURE & UTILISATION (CCU)

HAZER PLANT INTEGRATED INTO STEEL PRODUCTION



PARTNERSHIP WITH MIN

INVESTMENT AND COMMERCIAL PARTNER



- In March 2017 Hazer completed A\$5M strategic placement with ASX-listed mining and mining services provider Mineral resources Ltd
- MIN significantly increased their stake in Hazer to 14%
- 3rd October Hazer signed a Heads of Agreement with Mineral Resources for the potential development of a commercial synthetic graphite facility;
 - MIN to fund the commercial development
 - Hazer to obtain royalties from graphite sales
 - Initial target production of 10,000tpa
- Hazer to form part of MIN's growing battery / energy storage materials operations

A photograph of industrial equipment in a laboratory or factory setting. In the foreground, a large, cylindrical metal vessel with a flange and bolts is mounted on a green metal frame. To its right, a complex assembly of pipes and valves is visible, including a valve labeled 'V-605'. The background shows more industrial equipment, including large white storage tanks and a chain-link fence. The text 'POTENTIAL FUTURE DEVELOPMENTS' is overlaid in white, bold, sans-serif font in the center of the image.

POTENTIAL FUTURE DEVELOPMENTS

LABORATORY → PRE-PILOT PLANT

HAZER HAS MADE SIGNIFICANT PROGRESS IN SCALE-UP



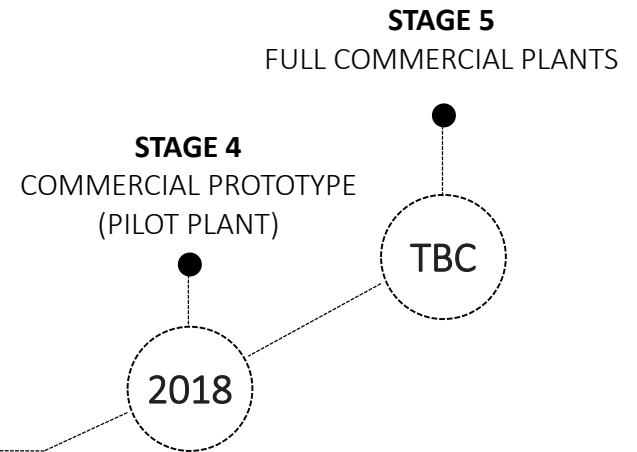
2016

STAGE 1-2 - LABORATORY
STATIC BED REACTOR
FLUIDIZED BED REACTOR



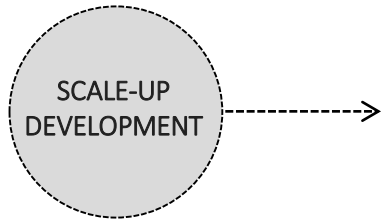
2017

STAGE 3 – PRE-PILOT PLANT
CONSTRUCTED AND COMMISSIONED 2017

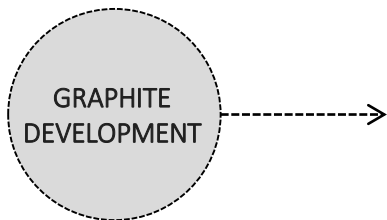


FUTURE TARGETS

TECHNICAL GOALS



- Next generation reactor design and implementation
- Increase production rates and run times
- Begin design process for the next scale of Hazer plant



- Battery testing beyond 100 cycles
- Evaluate commercial viability for graphite across additional markets
- New phase of battery testing with 99.95% material

FUTURE TARGETS

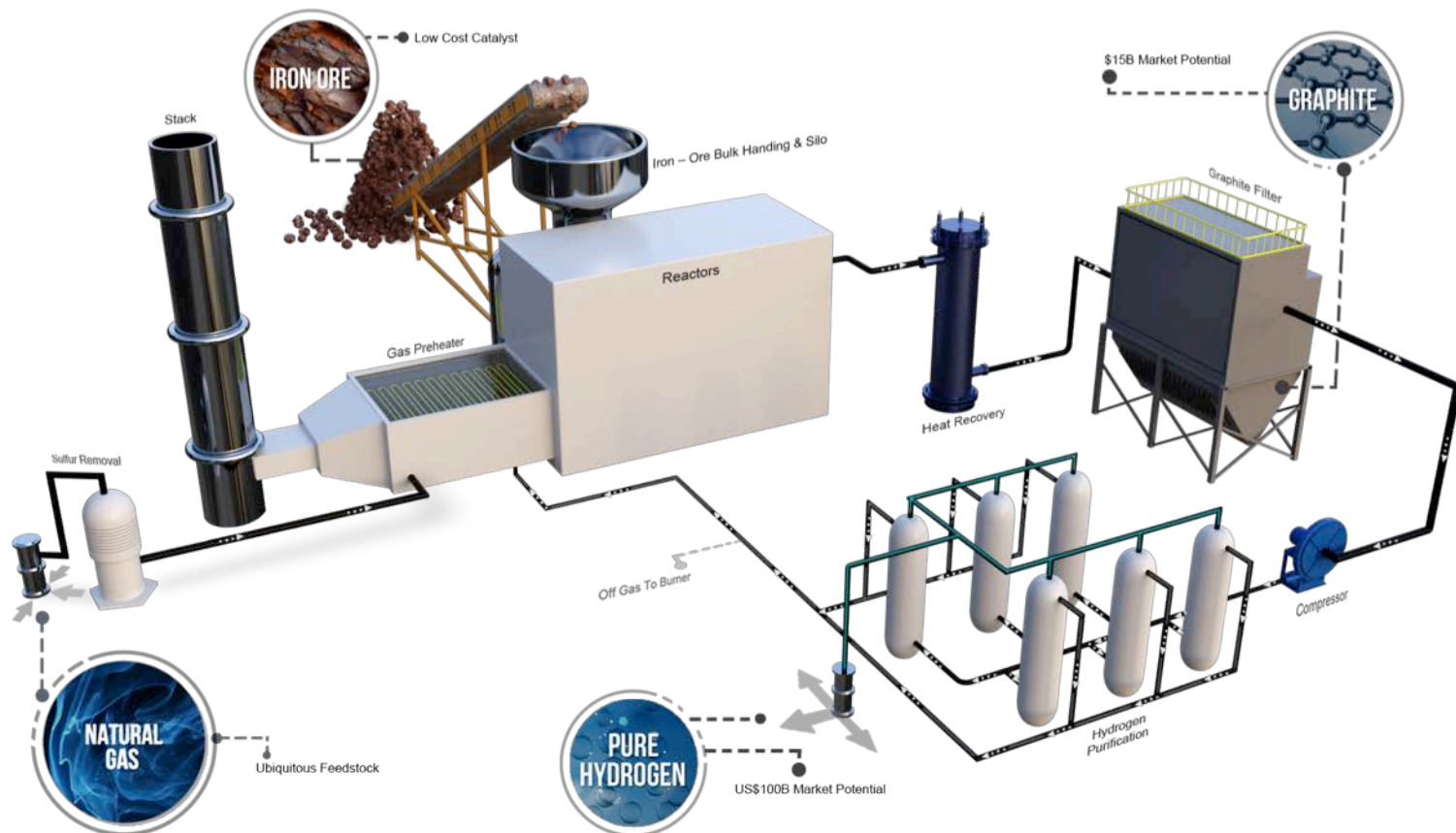
COMMERCIAL GOALS



- Completion and execution of binding agreement with Mineral Resources Ltd for development of synthetic graphite project
- **Ongoing milestones as collaboration progresses**
- Development of technical roadmap to determine preferred development pathway
- Progression to a binding formal agreement with Primetals to execute roadmap
- Continue to bolster board, management, and technical teams
- Progress commercial discussions with potential partners domestically and internationally

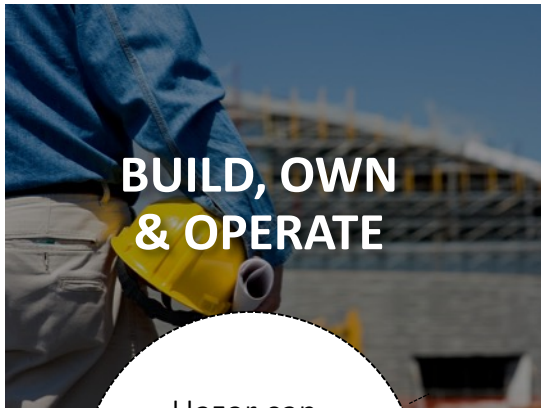
POTENTIAL FUTURE PLANT

THE HAZER PROCESS



COMMERCIALISATION OPTIONS

BUILD DIVERSIFIED REVENUE THROUGH MULTIPLE COMMERCIAL OPTIONS



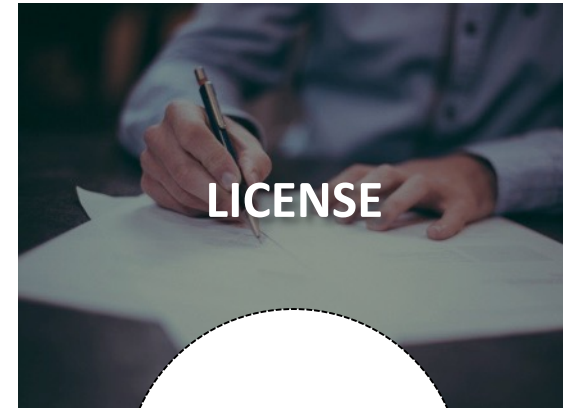
BUILD, OWN & OPERATE

Hazer can
construct & own
plants and sell
products



PARTNERSHIP

Share capital &
operating costs
with hydrogen or
graphite partners



LICENSE

License IP to 3rd
parties and generate
high margin royalty



**CURRENTLY INVESTIGATING MULTIPLE OPTIONS ACROSS
DIFFERENT BUSINESS MODELS**

EXPERIENCED & CAPABLE TEAM

STRONG CORPORATE, COMMERCIAL AND TECHNICAL EXPERIENCE



Mr Geoff Pocock | Managing Director

- Founder, HazerGroup Ltd
- Over 15 years experience in corporate finance, commercialisation and strategy
- Ex Managing Partner mid tier strategy consulting business
- Tertiary qualifications in Chemistry, Law and Applied Finance

Cobus Malherbe | GM – Process Dev't

- Masters in Chemical Engineering and over 20 years of international engineering and team management experience
- Previous relevant experience in roles at Santos Ltd, Linc Energy and Sasol Ltd.
- Chartered Chemical Engineer, registered with the Board of Professional Engineers of Queensland



Mr Terry Walsh | Chief Development Officer

- Former commercial lawyer with 20 years project development experience
- Former General Counsel, Hancock Prospecting Pty Ltd
- Previous roles with Rio Tinto, and leading law firms in Perth and Sydney, focusing on development

Mr Michael Wills | Marketing & Comm's

- 12 years experience in strategic communications and media
- Significant expertise in marketing strategy for ASX listed companies, including crafting communications collateral, implementing brand identity and attracting new investors
- Extensive experience working with high net-worth individuals and investors
- Active investor in ASX-listed small cap companies



STRONG BOARD CAPABILITIES

COMMERCIAL, TECHNICAL & REGULATORY EXPERTISE



Mr Tim Goldsmith | Chairman

- Over 20 years as Partner with global professional services group PwC
- Leader of PwC's Mining Group, and National China Desk leader at PwC
- Over 30 years corporate and commercial experience across international mining and industrial business operations

Ms Emma Waldon | Company Sec / CFO

- Over 18 years global corporate experience.
- Diverse financial, corporate advisory and risk management roles at Ernst & Young, Euroz Securities, Lloyds Banking Group (London) and Deloitte.
- Significant Company Secretary / CFO experience with public companies
- Member, AICA, a Fellow of the FINSIA and a Certificated Member of GIA.



Ms Danielle Lee | NED

- Corporate lawyer with more than 20 years' experience with approximately 9 years as legal counsel at ASX Sydney and Assistant Manager at ASX Perth.
- Main practice areas are corporate advisory, governance and equity capital markets; regularly advises on issues relating to the Corporations Act and ASX Listing Rules

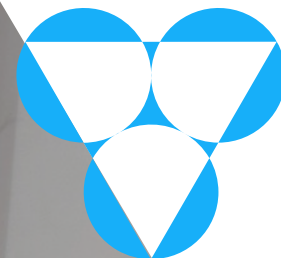
Dr Andrew Harris | NED

- Lead Director of the Engineering Excellence Group, Laing O'Rourke
- Professor of Chemical and Biomolecular Engineering at the University of Sydney
- Previously the CTO of Zenogen, a hydrogen production technology company, and a co-founder of Oak Nano, a start-up commercialising novel carbon nanotube technology.



AND (SOME OF) THE REST OF THE TEAM





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