

### **DISCLAIMER**

For personal use only

### IMPORTANT INFORMATION

This presentation has been prepared by Hazer Group Limited (Hazer)

This presentation is not a financial product or investment advice or recommendation, offer or invitation by any person or to any person to sell or purchase securities in Hazer in any jurisdiction. This presentation contains general information only and does not consider the investment objectives, financial situation and needs of individual investors. Investors should make their own independent assessment of the information in this presentation and obtain their own independent advice from a qualified financial adviser having regard to their personal objectives, financial situation and needs before taking any action.

No representation or warranty, express or implied, is made as to the accuracy, completeness, reliability or adequacy of any statements, estimates, opinions or other information, or the reasonableness of any assumption or other statement, contained in this presentation. Nor is any representation or warranty (express or implied) given as to the accuracy, completeness, likelihood of achievement or reasonableness of any forecasts, prospective statements or returns contained in this presentation. Such forecasts, prospective statements or returns are by their nature subject to significant uncertainties and contingencies, many of which are outside the control of Hazer.

To the maximum extent permitted by law, Hazer and its related bodies corporate, directors, officers, employees, advisers and agents disclaim all liability and responsibility (including without limitation any liability arising from fault or negligence) for any direct or indirect loss or damage which may arise or be suffered through use or reliance on anything contained in, or omitted from, this presentation. An investment in Hazer securities should be considered speculative and is subject to investment and other known and unknown risks, some of which are beyond the control of Hazer. Hazer does not guarantee any rate of return or the absolute or relative investment performance of Hazer securities. The distribution of this presentation including in jurisdictions outside Australia, may be restricted by law. Any person who receives this presentation must seek advice on and observe any such restrictions.

# WELCOME TO 2016 HAZER GROUP AGM CONTENTS

- Overview of Hazer Group achievements in 2016
- Snapshot Hazer Group Ltd now
  - Capital Market Performance
  - Our Technology
  - Global Market Opportunities
  - Our Team
- Potential Future Developments

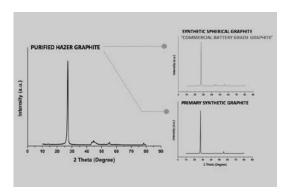
# WELCOME TO 2016 HAZER GROUP AGM **CONTENTS** Overview of Hazer Group achievements in 2016 Capital Market Perfor Global Market Opportunities **Potential Future Developments**

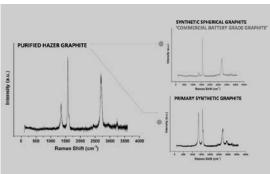


# -or personal use only

### 2016 ACHIEVEMENTS & HIGHLIGHTS

- Completion of IPO and listing on ASX (Dec 2015)
- Secured research partnership with Sydney University (Feb '16)
- Secured partnership with Kemplant (Mar '16)
- Secured further investment from institutional investor (Mar '16)
- Completed Entitlement Issue (Loyalty options) (Apr '16)
- Commissioned new reactor systems demonstrating scale up of Hazer Process (May '16)
- New Board member Dr Andrew Harris (Jun '16)
- Creation of Science Advisory Committee and appointed Chairman
   Dr Andrew Minett (Jun '16)
- High purity graphite & post reaction purification to 99% (Aug '16)









### 2016 ACHIEVEMENTS & HIGHLIGHTS

- Further Process Optimisation (Oct 2016)

- Further optimisation of process conditions to demonstrate both scale of reactor system and graphite purity
  - Synthesis of 1kg graphite (at rate of ~1.5kg/day)
  - Purity of raw reaction product improved to 95%







### 2016 ACHIEVEMENTS & HIGHLIGHTS

- New appointees to SAC(Oct 2016)

- Appointed three new members of Science Advisory Committee
  - David de Haas (Mineral resources Ltd)
  - Mark Edwards (Hatch Pty Ltd)
  - Kevin Peakman (BOC)

or personal

- Members join Chairman Dr Andrew Minett, Sydney University (appointed Chair in June)
- All members have significant industrial expertise in project management, process development, optimisation and scale up
- All members also have significant commercial expertise across
   Hazer's key markets



DR ANDREW MINETT Chairman of SAC



**DAVID DE HAAS**Mineral Resources Ltd



MARK EDWARDS Hatch Pty ltd



KEVIN PEAKMAN BOC



### 2016 ACHIEVEMENTS & HIGHLIGHTS

### - MoU with Pan American Hydrogen (Nov 2016)

- Executed MoU with Pan American Hydrogen, a US-based global supplier of hydrogen production infrastructure
- Commitment to jointly develop Hazer technology for commercial deployment across the hydrogen market
- Initial focus on small (100kg/day) production, with scope to include larger units as required

"We are impressed by the commercial opportunity that the Hazer Process represents for production of hydrogen with a lower  ${\rm CO_2}$  footprint, which we see as critical for the ongoing market application of hydrogen in global energy markets. We also see great potential for Hazer to offer the lowest cost hydrogen production technology globally, as hydrogen costs can be significantly reduced by credits from graphite sales, even at graphite values significantly below current market values"

Sergio Martinez, President, Pan American Hydrogen

or personal







# WELCOME TO 2016 HAZER GROUP AGM **CONTENTS** Snapshot – Hazer Group Ltd now Capital Market Performance Our Technology Global Market Opportunities Our Team **Potential Future Developments**



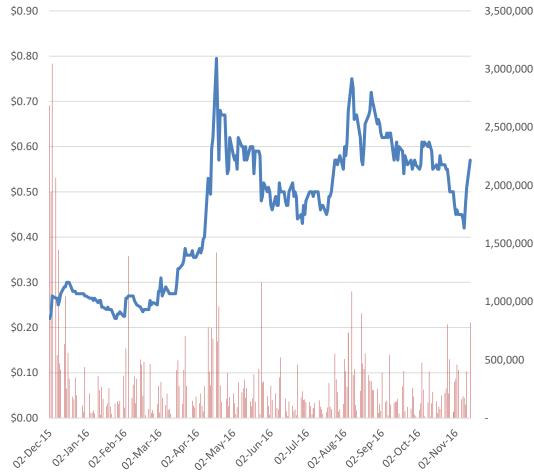
### **CORPORATE & MARKET SNAPSHOT**

### **CAPITAL STRUCTURE**

### Current Shares on Issue 64.5m (Restricted Securities) Total tradeable shares 54.4m Trading range (Post IPO) \$0.22 - \$.0.85 \$0.57 Last Market Cap'n (@\$0.57) \$36.8m Cash (30 Sep 2016) \$4.0m **Total Options** 49.1m Cash from option exercise\* \$18.7m Significant Shareholders Mr Geoff Pocock (MD) 4.2m Dr Andrew Cornejo (CTO) 3.8m Mineral Resources Ltd 2.0m UWA 1.7m Total Top 20 ~42%

For bersonal

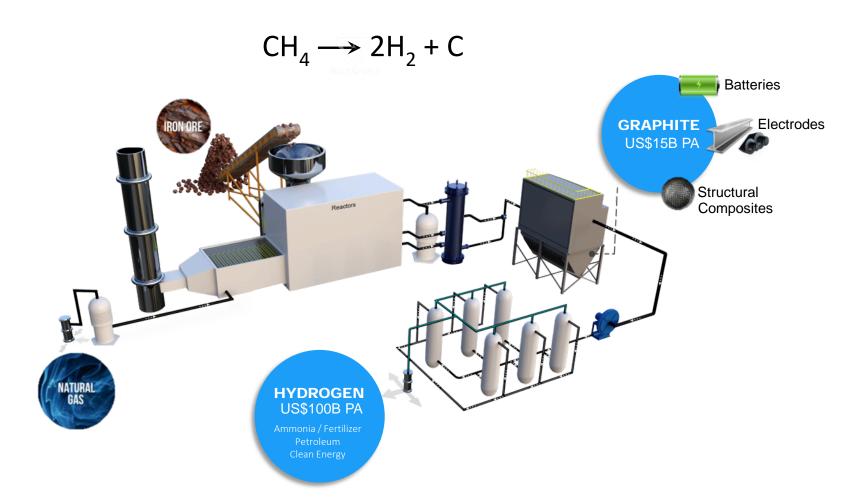
### HZR Share price & volume (since IPO)



<sup>\*</sup> Cash from options that are "in the money" at current share price only

### THE HAZER PROCESS

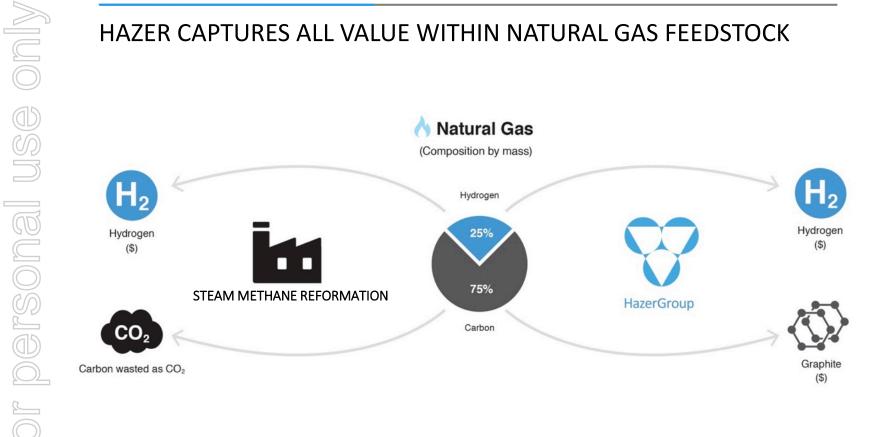
For personal use only





### **OUR DIFFERENCE**

### HAZER CAPTURES ALL VALUE WITHIN NATURAL GAS FEEDSTOCK





### REDUCED RISK TOWARDS SCALE-UP

### Reduced Commercial Risk

Natural gas to hydrogen conversion is currently done on industrial scale (steam methane reformation - SMR)

Majority of SMR plant infrastructure would be similar for Hazer Process based production plant

-or personal use only

Hazer will review the potential to retrofit Hazer reactor into existing SMR-based production plants

### Reduced Technical Risk

Core chemistry (catalytic decomposition of methane) has previously been developed to pilot plant scale

Technical issues for scale up of Hazer process have been addressed in comparable systems

Hazer's core innovation is use of low cost catalyst that addresses the underlying economic barrier to technology development



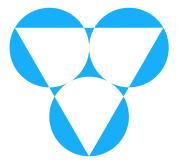
### POTENTIAL COMPETITIVE ADVANTAGES

# LOWER COST PRODUCTION ACCESS TO BILLION DOLLAR MARKETS

By capturing both the hydrogen and carbon (graphite) value of natural gas, the Hazer Process can potentially offer lower net production costs for these markets.



or personal



# CLEAN HYDROGEN NEW MARKETS FOR ENERGY

By producing hydrogen with lower  ${\rm CO_2}$  emissions, the Hazer Process can potentially produce "clean" hydrogen for the growing clean energy hydrogen market.



# PROCESS VERSATILITY ACCESS TO LOW COST INPUTS

The Hazer Process has potential to be used to capture value from a wide range of resources, including "stranded" gas assets.





### POTENTIAL GLOBAL MARKETS

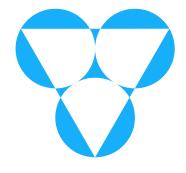
### **GRAPHITE MARKET (\$13bn pa)**

- Industrial materials applications
- Growth energy storage (batteries)
- Currently addressed by mining, synthetic graphite production











- Key component of clean energy future (H<sub>2</sub> => H<sub>2</sub>O + energy)
- Fuel cell vehicles, stationary power applications
- Fundamental cost, energy limitations for existing options



### INDUSTRIAL HYDROGEN (\$100bn pa)

- Oil refining, ammonia production, other industrial chemicals
- Price sensitive, technology agnostic
- Currently addressed by fossil fuel reformation













### **EXPERIENCED & CAPABLE TEAM**

### EXPERIENCED IN BUILDING GLOBAL ENTERPRISE



### Mr Geoff Pocock | MD

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

### Dr Andrew Cornejo | CTO

- PhD and key researcher on Hazer project
- Lead inventor on a number of patents.
- Commercial experience in engineering consultancy and resources project development.
- Bachelor of mechanical engineering and commerce (UWA), Graduate Cert in research commercialization (QUT)





Delsonal

### Ms Emma Waldon | Company Sec / CFO

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

### Mr Terry Walsh | CDO

- 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 of major projects.





### STRONG BOARD CAPABILITIES

### COMMERCIAL, TECHNICAL AND REGULATORY EXPERTISE



### Mr Rick Hopkins | Chairman

- Partner, PKF Lawler
- Substantial director experience in public and private entities, plus significant corporate finance and tax expertise
- Fellow of the Institute of Chartered Accountants , Fellow of the Financial Services Institute of Australasia

### Dr Andrew Harris | NED

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



### Ms Danielle Lee | NED

- Special counsel at Jackson McDonald corporate advisory team.
- 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

### Mr Bryant McLarty | NED

- Principal, Mac Equity Partners
- Significant public capital expertise in technology commercialisation companies
- Led recapitalisation and growth strategy for Structural Monitoring Systems PLC (ASX:SMN)
- Previously Exec Chairman of PharmAust (ASX:PAA), non-exec director Avation PLC (LSE:AVAP)







### TARGETS AND GOALS FOR 2017

Hazer is looking to build on the success of 2016, and is targeting ongoing technical and commercial progress during 2017

### **TECHNICAL DEVELOPMENT**

- Ongoing scale up of system and commissioning of new reactors and associated systems
  - Pre-pilot plant in early 2017
  - Working with partners towards pilot plant with commercial potential

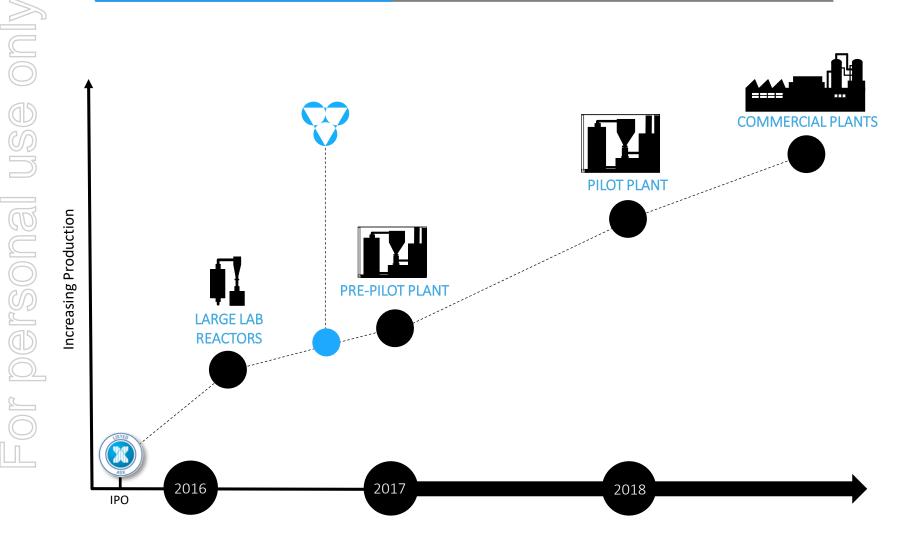
### COMMERCIAL DEVELOPMENT

- Increasing commercial traction for Hazer through partnerships and other commercial relationships
  - Production partners, hydrogen and graphite end users and market intermediaries





### **SCALE UP ROADMAP**



<sup>\*</sup>The ongoing scale up development work depends upon a number of factors including continued technical and development success of the Hazer Process in a cost efficient manner as a pre-pilot plant, a pilot plant and any commercial plants are commissioned as well as securing funding (whether equity or debt) for these stages of development and such funding being available on acceptable terms.



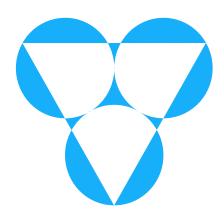
# for personal use only

### **COMMERCIALISATION OPTIONS**

At commercial scale, Hazer has multiple commercial revenue / value creating options

## **BUILD / OWN / OPERATE**Hazer can construct & own

plants and sell products



### **LICENSE**

Hazer can license IP to third parties and generate high margin royalty

### **PARTNERSHIP**

Share capital & operating costs if partner has interest in only one product

