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There are forward looking statements in this document relating to the outcomes of the Pre-Feasibility Studies and ongoing work on the WAH<sub>2</sub> Project. Actual results and developments of projects and the market development may differ materially from those expressed or implied by these forward-looking statements. These, and all other forward-looking statements contained in this document are subject to uncertainties, risks and contingencies and other factors, including risk factors associated with hydrogen business. It is believed that the expectations represented in the forward looking statements are reasonable but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including but not limited to price fluctuations, actual demand, currency fluctuations, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory changes, economic and financial market conditions in various countries and regions, political risks, project delay or advancement, approvals and cost estimates.

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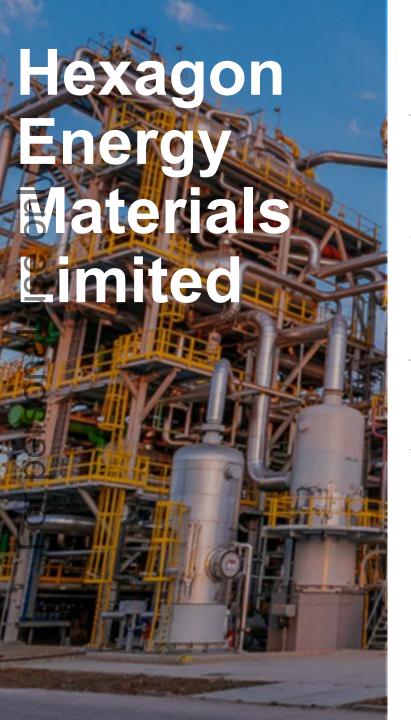
#### Gas Supply

Hexagon has not secured a long-term gas supply agreement. There is no guarantee that current discussions will convert into firm commitments to supply gas over the long term. It should be noted that the WAH<sub>2</sub> Project is contingent on securing long term gas supply in line with the assumed volumes, timing and price. If this cannot be achieved, there is a risk that the WAH<sub>2</sub> Project may be downgraded, deferred or may not go ahead.

#### Financing

"Hexagon has not secured funding for the WAH<sub>2</sub> Project and accordingly to achieve the range of outcomes required for Phase 1, Hexagon will need to secure between A\$405M and A\$567M in funding for the project (assuming farmout of 65% - 75% project, leaving Hexagon with a 25% - 35% project share). There is no certainty Hexagon will be able farm out the Project or to raise the amount of funding when required. It should also be noted that any raise may only be available on terms that may be dilutive to shareholders or otherwise affect the value of Hexagon's shares. If the proposed farm-out or funding cannot be achieved, there is a risk that the WAH<sub>2</sub> Project may be downgraded, deferred or may not go ahead.

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ASX listed project developer (HXG)\*

Competitive, low-emissions ammonia export project (WAH<sub>2</sub>), annual net CF A\$244 million (100% project)<sup>1</sup>

Targeting substantial Asian coal co-firing market opportunity, ~US\$10 Bn pa market by 2035<sup>2</sup>

Site secured & highly encouraging PFS completed

FEED approaching – pathway to execute partner MOUs/Agreements

## FID target 2025

\*HXG.ASX. Shares on issue 512,915,901. Market capitalisation \$5 million. nil debt, cash of \$1 million as at 30 September 2023.

¹WAH2 Project Pre-Feasibility Study Updated Announcement (ASX: 2 August 2023); annual net CF estimate from 2028

²Low-emissions ammonia market opportunity expected to reach 20 MTPA in Japan by 2035 based on 20% ammonia co-firing of coal-fired fleet

# The opportunity – substitute ammonia for coal

Japan plans to prioritize low-emissions ammonia to meet its climate targets

#### **Ammonia for Coal**

Electricity producers in North Asia are targeting to substitute ammonia for coal in their thermal power stations

#### **Current Coal Generation**

1/3 of Japan's electricity needs are currently met from coal-fired generation<sup>1</sup>

## **Emissions Target**

Japan has committed to reduce greenhouse gas emissions by 46% in 2030<sup>2</sup>

## **Govt Backing Co-Firing**

Government and industry plan that by blending Ammonia with Coal, Japan can meet lowemissions with existing power plants

## **Huge Demand Growth**

Huge growth in market for low-emissions ammonia, expected to reach 20 MTPA<sup>3</sup> with a value of US\$10 Bn/yr<sup>4</sup> by 2035

## Japan's Ammonia criteria

Australia well-placed, Hexagon best-placed







## Low **Emissions**

Less than 4.2 T CO<sub>2</sub>e /T H<sub>2</sub>e<sup>1</sup>, lower preferred and prioritized

## Cost Competitive

 $US$500 - 600 / T NH_3^2$ delivered in Japan

## Secure Supply

From established and stable trading partner countries

## **HEXAGON**

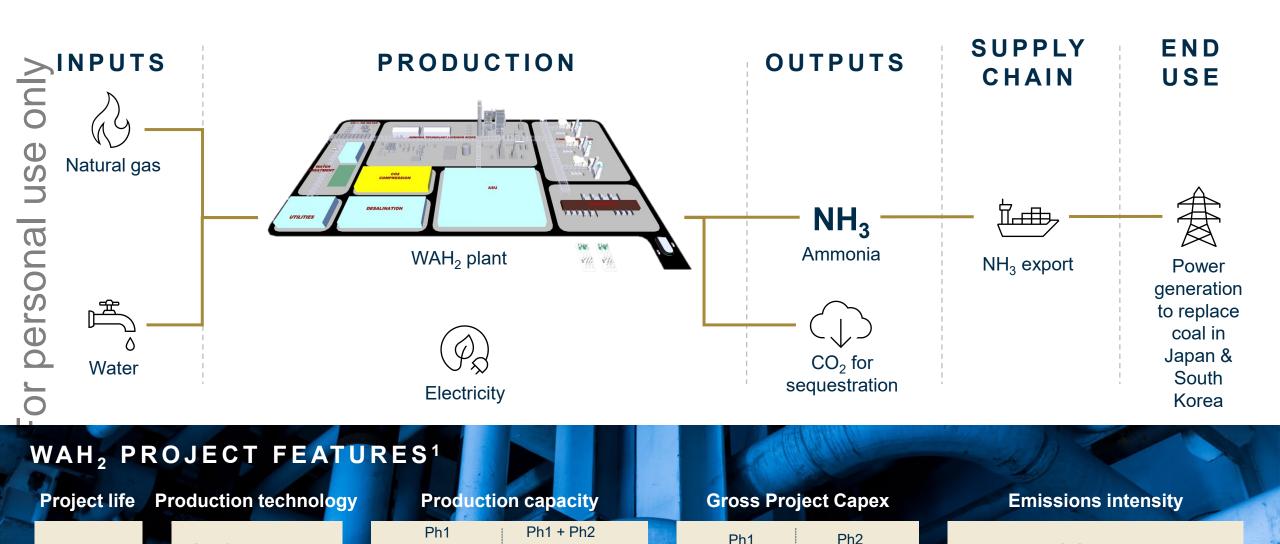
Detailed engineering work by Petrofac demonstrates emissions intensity of 1.1 T CO<sub>2</sub>e /T H<sub>2</sub>e, further improvement opportunities identified<sup>3</sup>

WAH<sub>2</sub> Project Base Case **cost of** supply US\$552 /T NH<sub>3</sub> Target of < US\$500 /T NH<sub>3</sub> based on identified opportunities<sup>3</sup>

Australia is an established energy partner supplying 34% of Japan's energy imports<sup>4</sup>. Decades-long collaboration to build and sustain stable LNG supply

# Project overview - Hexagon's WAH<sub>2</sub> export plant

Material volumes of low-emissions, cost competitive ammonia, target online before 2030



1200kTPA

**A\$1.62B** 

A\$1.29B

1.1kg CO<sub>2</sub>e / kg H<sub>2</sub>e

Note (1); WAH2 Project Pre-Feasibility Study Updated Announcement (ASX: 2 August 2023)

O<sub>2</sub> fired ATR

600kTPA

25yr

# Project site - allocation of Maitland SIA site

Proximity enables lower cost access to required services and infrastructure



#### Hexagon allocated 40 ha site in Maitland SIA

 Access to existing deep-water port, existing infrastructure corridors, multiple CCS options; adjacent to DBNGP<sup>2</sup>



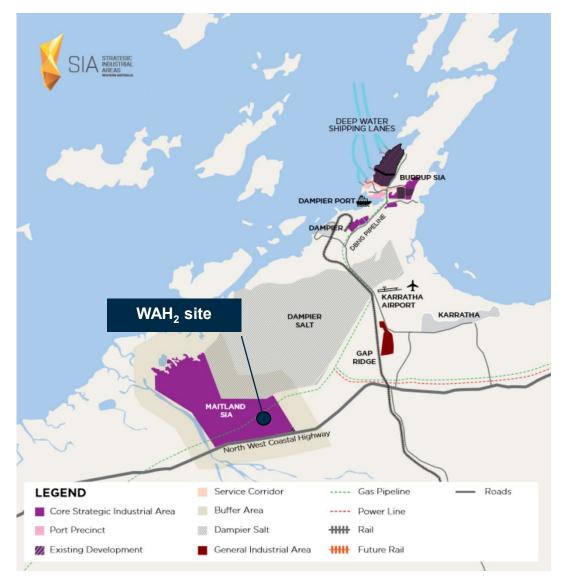
# Award of land to proponents of other projects creates significant opportunities to share infrastructure

 Water supply, power supply, CO<sub>2</sub> transmission, ammonia export



# Native Title approval provided by existing Burrup and Maitland Industrial Estates Agreement

 Indigenous Land Use Agreement required with Ngarluma Aboriginal Corporation



# WA Early

personal

# WAH<sub>2</sub> Project is best-placed

Early mover project with competitive advantages related to tech. choice and secured site

> 140

**Australian Hydrogen Projects** More than 140 hydrogen-related projects have been announced in Australia

30

**Low-emissions Ammonia** Of these, only 30 are targeting low-emissions ammonia as the product

23

**Majority Electrolysis-based** Cost and schedule challenges (Proving technology at scale, supply chain constraints, cost of supply)

5

Based on gas reforming with CCS<sup>1</sup> Others use coal, with emissions challenges; or biomass, unproven at scale

WAH<sub>2</sub> is Unique The only proposed gas-based project with access to an existing deep-water port and multiple, mature CCS projects nearby

1

# Partnering with experienced industry players

HXG is seeking the fastest, lowest-cost, lowest-risk pathway to production

## Partners accelerate pathway to operation:

Sy partnering with existing industry players, Hexagon can de-risk technical issues and enable lower costs by using existing infrastructure

In this way a small company can build out a large project

## Key asset (site) already secured:

Ideally-located industrial land close to

- Gas supply
- CO<sub>2</sub> sequestration projects
- Water supply
- Existing port services
- Existing ammonia infrastructure



## Our team

## Experienced team supplemented by strategic partners to secure way forward for WAH<sub>2</sub>

#### **Board of Directors**



**Charles Whitfield** Chairman

CIO of Drumrock Capital Ex MD Citibank & Deutsche Bank Head of Strategic Equity Transactions



**Andrew Kirk Commercial Director** 

Head of LNG for Power Co., Bangkok. Ex-17 years Woodside LNG Strategy Co-founder Green Hydrogen Asia. Malavsia



**Garry Plowright Non-Exec Director** 

and Access and Approvals Manager at Pilbara Minerals History in Mining law, regulatory process and mine development.



Philipp Kin **Non-Exec Director** 

Career spanning investment banking (M&A, DCM and ECM) and energy research roles including Lead WA LNG Asset Economist at Shell

Wealth of experience in developing projects and businesses from inception to multi-billion-dollar enterprises

### **Project Leadership Team**



**Stephen Hall CEO/ Project Leader** 

30 years-experience energy sector Ex-Woodside Energy VP Strategy, Power & New Markets Ex-VP North-West Shelf Development



**Reinhardt Matisons Business Development** 

35 years commercial experience Energy sector. Ex-EVP Marketing, Trading & Shipping at Woodside Energy Ltd. Ex-Senior Consultant Poten & Partners



**Neil Theobald Business Development** 

Snr Adviser Asia Natural Gas & Energy Asscn Senior Advisor to McKinsey & Co. Ex-Chevron VP Global LNG, Gas & Trading Ex-Non-Exec Chair North-West Shelf Gas



Liz Sully **Regulatory Approvals** 

25 years regulatory approvals experience in energy sector Ex-Santos & Woodside Regulatory Approvals Specialist

Combined experience over 80 years with focus on technical and commercial development of projects in joint venture with Japanese corporates

### **Industry partners**



**Engineering and** construction specialists

# **TOPSOE**

**Ammonia Process** specialists

World class technical advisors to provide detailed technical and costing analysis

# Pathway to first production

### Preserving shareholder value by staged approach



PRE-FEED

Target completion Q2 2024

- **Current funding**
- Self-fund; any capital raise would occur post first strategic MoU announcement
- Prior to FEED, farm down 65-75% of project ownership



#### FEED

- Target completion Q2 2025
- Total expenditure ~\$12-15 M
- Self fund remaining \$3-5 M (25%-35% Hexagon share)
- Raise finance to fund the project through to FID



#### PH1 BUILD & COMMISSION

- Target completion 2028
- Total expenditure ~\$1,620 M
- HXG share funded 60:40 debt/project finance to equity (\$162-228 M equity)
- Ph2 considered post Ph1 with free cashflow generation

By breaking the path to production into discreet steps and bringing in partners at key steps, HXG can leverage its team and capital

# Timeline - significant milestones approaching



MoUs with counterparties next step for WAH<sub>2</sub> Project value realisation



Unconditional Agreements for energy supply, gas supply,

CO<sub>2</sub> sequestration, ammonia offtake

# **Compelling proposition**

H2 Project Pre-Feasibility Study Updated Announcement (ASX: 2 August 2023)

FEED on WAH<sub>2</sub> the next key milestone, pathway to Project partnerships





## **Graphite Assets**

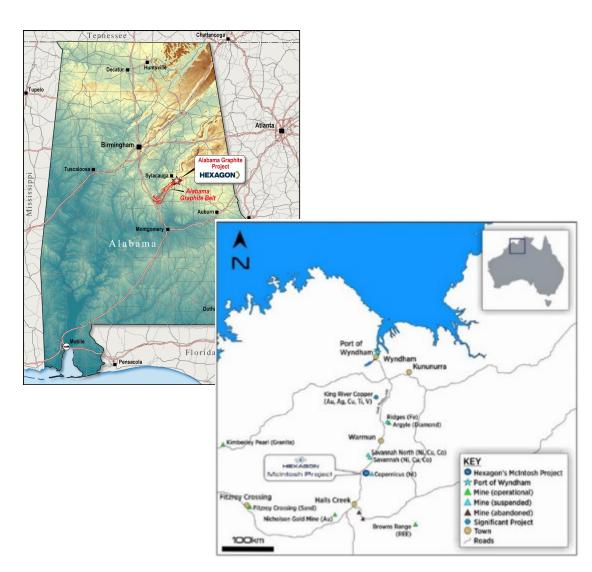
## Progress continues with our Graphite JV partners in USA and Australia

#### **Ceylon Project JV with South Star Graphite**

- Second DDH drilling campaign and completed 15 holes program for a total of 1998 meters. Results due November
- NI43-101 PEA scheduled for completion by end of March 2024
- JV partner has spent U\$1.56M as of Q3, 2023 and budgeted approximately U\$650 for PEA.

#### **McIntosh Project JV with Green Critical Minerals**

- 2023 Drilling campaign completed 15 holes program for a total of 1998 meters. Results due November 2023
- Second stage payment A\$200k received Nov 2023
- JV partner has stated estimated spend A\$2.5M as of Q4 2023.



# **Hexagon's other Mineral Assets**

#### McIntosh and Halls Creek mineral tenements

#### McIntosh and Halls Creek JV discussions in progress

- Further product test work currently being undertaken
- Review of results and data updated with PGE and Base metals potential identified
- Demonstrates strong potential for both tenements for key critical minerals
- New data room assembled and Investment Memoranda
- Strategic co-development discussions progressing and options being compared.

