



4 APRIL 2023

ASX:FYI | OTCQX:FYIRF

## FYI TO PRESENT AT RESOURCE CONNECT ASIA FUTURE FACING COMMODITIES CONFERENCE

FYI Resources Limited (ASX: FYI, 'FYI' or the 'Company') is pleased to announce that Managing Director Roland Hill will be presenting at the Resource Connect Asia – Future Facing Commodities Conference being held in Singapore. The presentation by FYI Resources will be **Wednesday, 5 April 2023 at 1:30pm (AEST); 11:30am (WST)**.

Investors can register for the event at:

[https://us02web.zoom.us/webinar/register/WN\\_udDesg72TEy9N1eWyU1geg](https://us02web.zoom.us/webinar/register/WN_udDesg72TEy9N1eWyU1geg)

A copy of the presentation follows.

This announcement is authorised for release by Roland Hill, Managing Director

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[roland.hill@fyiresources.com.au](mailto:roland.hill@fyiresources.com.au)

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NWR Communications  
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### About FYI Resources Limited

FYI has developed an innovative process design for the integrated production of high quality, high purity alumina (HPA) predominantly for electric vehicles (lithium-ion batteries), sapphire glass, LEDs / micro-LEDs and other broader tech applications.

FYI's is positioning itself to be a significant producer of 4N and 5N HPA in the rapidly developing high-tech product markets.

FYI applies both an ESG and economic overlay of the Company and its operations to ensure long-term sustainable and shareholder value is created via the development of the Company's innovative, high quality, ultra-pure HPA project.

HPA is increasingly becoming the primary sought-after input material for certain high-tech products principally for its unique properties, characteristics and chemical properties that address those applications high specification requirements such as LED's and other sapphire glass products.

The longer-term driver for HPA, with forecasts of >17% CAGR\*, is the outlook for the burgeoning electric vehicle and static energy storage markets where the primary function is in the use as a separator material between the anode and cathode in batteries to increase power, functionality and safety of the battery cells.

The foundation of the HPA strategy the Company's moderate temperature, atmospheric pressure innovative process flowsheet. The strategy's quality attributes combine resulting in world class HPA project potential.

\* CRU HPA Industry Report 2021

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**DEVELOPING A WORLD CLASS INTEGRATED HIGH PURITY ALUMINA (HPA) PROJECT**

ACN 061 289 218



**Presentation:**  
**Resources Connect Conference**  
**Singapore**

**4-6 April 2023**

Developing a world class integrated high purity  
alumina (HPA) project

**ASX:FYI**

**FSE:SDL**

**OTCQX:FYIRF**



# DISCLAIMER

## CAUTIONARY STATEMENT

This presentation is for information purposes only. Neither this presentation nor the information contained in it constitutes an offer, invitation, solicitation or recommendation in relation to the purchase or sale of shares in any jurisdiction. This presentation may not be distributed in any jurisdiction except in accordance with the legal requirements applicable in that jurisdiction.

The DFS referred to in this presentation is a study of the potential viability of the Cadoux Project. It has been undertaken to understand the technical and economic viability of the Project. The DFS assumes as a 25-year Project life based only on Proved and Probable Ore Reserves (100%). The DFS is based on the material assumptions and modifying factors set out in the DFS announcement and the appended summary of the DFS released to ASX on 8 April 2021. These include assumptions about the availability of funding. While the Company considers all of the material assumptions to be based on reasonable grounds, there is no certainty that they will prove to be correct or that the range of outcomes indicated by this DFS will be achieved. To achieve the range of outcomes indicated in the DFS funding in the order of US\$202 million will likely be required. Investors should note that there is no certainty that the Company will be able to raise the amount of funding when needed. It is also possible that such funding may only be available on terms that may be dilutive to or otherwise affect the value of the Company's existing shares. It is also possible that the Company could pursue other "value realisation" strategies such as a sale, partial sale or joint venture of the Project. If it does, this could materially reduce the Company's proportionate ownership of the Project. Given the uncertainties involved, investors should not make any investment decisions based solely on the results of the DFS. The contents of this presentation reflect various technical and economic conditions, assumptions and contingencies which are based on interpretations of current market conditions at the time of writing. Given the nature of the resources industry, these conditions can change significantly and without notice over relatively short periods of time. Consequently, actual results may vary from those detailed in this presentation. Some statements in this presentation regarding estimates or future events are forward-looking statements. They include indications of, and guidance on, future earnings, cash flow, costs and financial performance.

Such forward-looking statements are provided as a general guide only and should not be relied on as a guarantee of future performance. When used in this presentation, words such as, but are not limited to, "could", "planned", "estimated", "expect", "intend", "may", "potential", "should", "projected", "scheduled", "anticipates", "believes", "predict", "foresee", "proposed", "aim", "target", "opportunity", "nominal", "conceptual" and similar expressions are forward-looking statements. Although the Company believes that the expectations reflected in these forward-looking statements are reasonable, such statements involve risks and uncertainties, and no assurance can be given that actual results will be consistent with these forward-looking statements. The contents of this release are also subject to significant risks and uncertainties that include but are not limited to those inherent in mine development and production, geological, mining, metallurgical and processing technical problems, the inability to obtain and maintain mine licences, permits and other regulatory approvals required in connection with mining and processing operations, competition for among other things, capital, acquisitions of reserves, undeveloped lands and skilled personnel, incorrect assessments of the value of projects and acquisitions, changes in commodity prices and exchange rates, currency and interest rate fluctuations and other adverse economic conditions, the potential inability to market and sell products, various events which could disrupt operations and/or the transportation of mineral products, including labour stoppages and severe weather conditions, the demand for and availability of transportation services, environmental, native title, heritage, taxation and other legal problems, the potential inability to secure adequate financing and management's potential inability to anticipate and manage the foregoing factors and risks. All persons should consider seeking appropriate professional legal, financial and taxation advice in reviewing this announcement and all other information with respect to the Company and evaluating the business, financial performance and operations of the Company. Neither the provision of this presentation nor any information contained in this release or subsequently communicated to any person in connection with this presentation is, or should be taken as, constituting the giving of investment or financial advice to any person. This presentation does not take into account the individual investment objective, financial or tax situation or particular needs of any person.

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# DISCLAIMER

## Competent Person's Statement

### Ore Reserves

The information in this report that relates to Ore Reserves is based on information compiled by Mr. Steve Craig, who is a Fellow of the Australasian Institute of Mining and Metallurgy. Steve Craig is a full-time employee of Orelogy Consulting Pty Ltd and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". The information is extracted from the Ore Reserve announcement released within the DFS announcement 8 April 2021 and is available to view on the Company's website at [www.fyiresources.com.au](http://www.fyiresources.com.au)

### Mineral Resources

The information in this report that relates to Mineral Resources is based on information compiled by Mr Grant Louw, under the direction and supervision of Dr Andrew Scogings, who are both full-time employees of CSA Global. Dr Scogings is a Member of the Australasian Institute of Mining and Metallurgy and a Member of the Australian Institute of Geoscientists. He is a Registered Professional Geologist in Industrial Minerals. Dr Scogings has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2012 Edition of the "Australasian Code for the Reporting of Exploration Results, Mineral Resources, and Ore Reserves". The information is extracted from the PFS announcement dated 25 September 2018 and is available to view on the Company's website at [www.fyiresources.com.au](http://www.fyiresources.com.au)

### Metallurgy

The information in this report that relates to metallurgy and metallurgical test work is based on information reviewed and compiled by Mr Alex Borger, a Competent Person who is a Fellow of the Australian Institute of Mining and Metallurgy (AusIMM). Mr Borger is an employee of Independent Metallurgical Operations Pty Ltd, and is a contractor to FYI. Mr Borger has sufficient experience that is relevant to this style of processing and type of deposit under consideration, and to the activity that he has undertaken to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves". Announcements in respect to metallurgical results are available to view on the Company's website at [www.fyiresources.com.au](http://www.fyiresources.com.au).

### General

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the findings in the relevant market announcements continue to apply and have not materially changed and that all material assumptions and technical parameters underpinning the estimate in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original announcement.



# FYI'S MISSION

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- FYI's ambitions are to become a globally significant producer of high quality critical minerals for use in the rapidly developing electric vehicles market and high-tech applications
- FYI's objective is to deliver into the long-term value drivers for HPA:
  - the booming electric vehicle and battery storage markets
  - LED, sapphire glass,
  - Global energy reduction targets and decarbonising
- FYI's mission is to be a key contributor of a sustainable world by innovating responsibly, giving back to our communities and reducing environmental impact for our future generations
- Deliver superior investment returns to shareholders through critical minerals project development



# FYI LEADERSHIP TEAM

## DIRECTORS



**Mr Edmund Babington**  
Non-Exec Chairman



**Ms Sandy Chong**  
Non-Exec Director



**Mr David Sargeant**  
Non-Exec Director



**Mr Roland Hill**  
Managing Director

## MANAGEMENT



**Claudio Di Prinzio**  
Manager - Ops & Tech



**Hans op den Dries**  
Chief Financial Officer



**Phil Macleod**  
Company Secretary



**Phil Thick**  
Corporate Advisor

**ASX:FYI FSE:SDL OTCQX:FYIRF**

**Shares on issue: 366.3m**  
**Options: 3.5m**

Share price	A\$0.07
Market capitalisation	A\$25m
Cash on hand	A\$10.1m
Equity facility	A\$80m

## Capital Structure

Board & Management ~10%  
Top 20 Holders ~41%  
Top 40 Holders ~ 53%

## Corporate Details

Name: FYI Resources Limited  
Address: Unit 8-9, 88 Forrest St  
Cottesloe WA 6011  
Phone: +61 8 6313 3920  
Email: [info@fyiresources.com.au](mailto:info@fyiresources.com.au)

# FYI HPA PROJECT OUTLINE



FYI is an emerging and fully integrated high purity alumina (HPA) producer utilising its innovative proprietary flowsheet design for high quality, low cost production



FYI's HPA process flowsheet and technologies coupled with extensive development result in a robust project strategy that has been demonstrated and risk reduced ahead of commercialisation



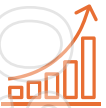
FYI's HPA flowsheet is characterised as a disruptive technology / low carbon emission process delivering critical high purity material for use in new age applications



FYI's developed HPA process results in best in class project economics – outstanding NPV & IRR / lowest quartile capex and opex and clear market advantages



FYI is actively implementing a positive sustainable and societal guidelines and standards to better manage future financial performance and low carbon footprint



FYI offers exposure and leverage to future looking industries and market applications through its ultra high quality HPA

**fyi**



Australian Government  
Department of Industry, Science,  
Energy and Resources

**Business**  
Cooperative Research  
Centres Program



**FUTURE  
BATTERY  
INDUSTRIES** CRC

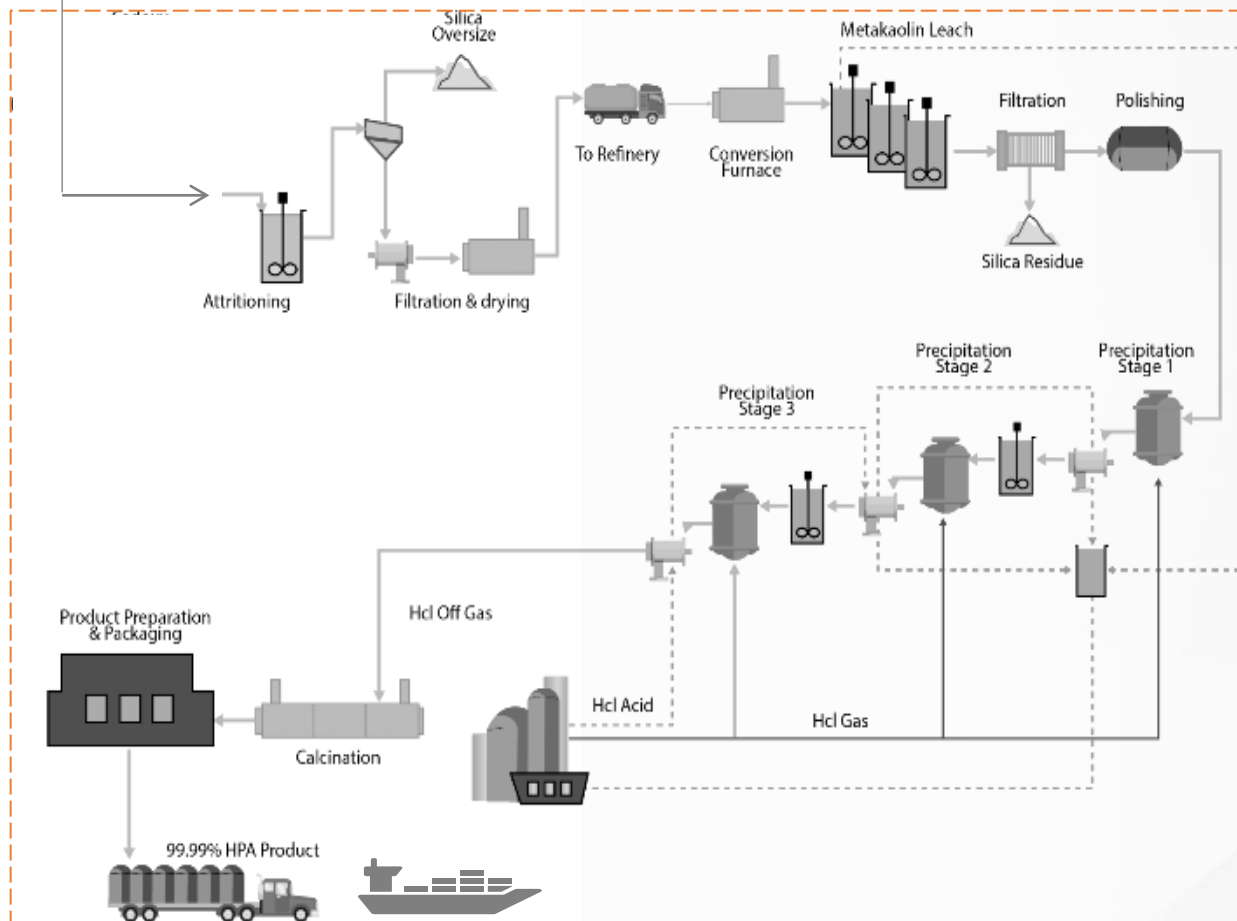


**Business**  
business.gov.au

# FYI'S INNOVATIVE HPA FLOWSHEET DESIGN

Proprietary feedstock

Western Australia



Developed for specific chemistry, quality and characteristics of proprietary feedstocks



Innovative design - for efficiency and low capex & opex (heavy duty, low maintenance and long life process flowsheet)



Successfully demonstrated high purity 99.99%-99.999%  $\text{Al}_2\text{O}_3$  with excellent process recoveries



Low environmental footprint, low carbon emissions, ethically sourced – key customer requirements



Processing plant planned for in Tier 1 location – Kwinana Battery Alley



# FYI'S HPA PROJECT DETAILED FEASIBILITY STUDY HIGHLIGHTS

HPA Project  
NPV<sup>8%</sup>  
US\$1.01b\*

## 1 STRATEGIC ASSET AND TECHNOLOGY

Innovative process based on integrated long-life asset

## 2 EXCEPTIONAL ECONOMICS

Developed technology provides outstanding advantages

## 3 DEMAND

Growing market demand for high quality HPA

## 4 DEMONSTRATED AND DE-RISKED

5 years of extensive R&D, testwork, trialing and marketing

## 5 CLEAR DELIVERY PATHWAY

Defined project development outlined under DFS – Plan “A”

# DFS - OUTSTANDING PROJECT ECONOMICS SUMMARY

NPV Summary (post tax)

**US\$6,661**  
HPA CASH COST



PER TONNE PRODUCTION

**55%**



IRR

**25 YEARS**



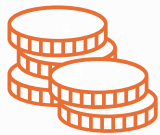
DCF PROJECT FORECAST

**US\$202m**



CAPEX ESTIMATE

**US\$186m**



25 YEAR AVG ANNUAL EBITDA

**3.2 YEAR**



PROJECT CAPITAL PAYBACK

**US\$1,014m**



AFTER-TAX NPV (@ 8%)

**US\$131m**



NET CASH FLOW PER ANNUM

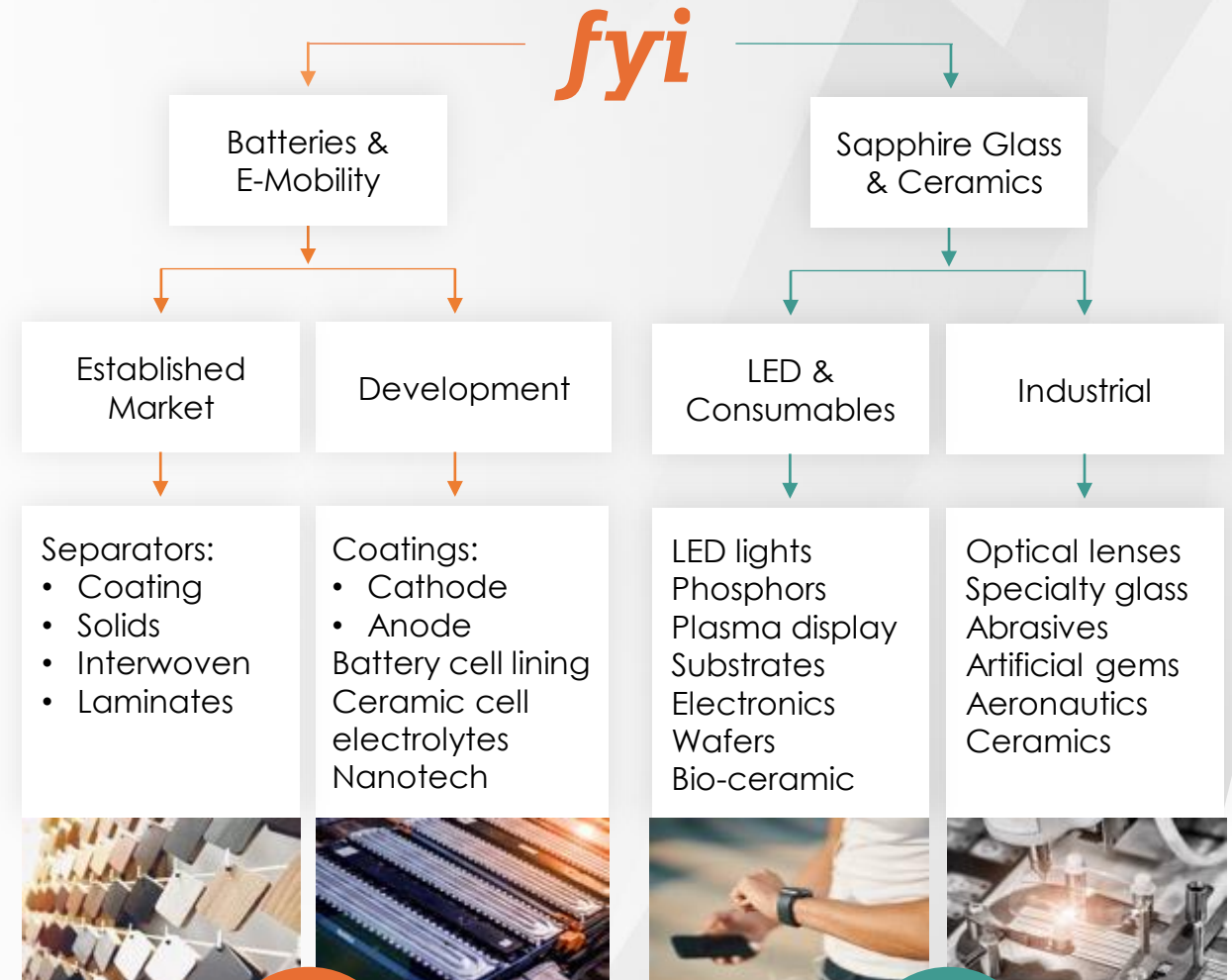
**10,000 tpa HPA production**

**US\$26,400/t HPA sales price**

**15% of sales is 99.999% (5N)**

# HPA PRODUCTION FACILITY MARKETS

- HPA volumes forecast to grow 300% in 5 years from ~35,000t in 2023 to over 100,000tpa in 2028#
- Carbon reduction and reduced global emissions, e-mobility are driving demand
- LEDs, mini-LED (150 µm) and micro-LEDs (50 µm) are contributing to an energy and decarbonising revolution
- Global LED adoption could amount to an annual saving of 1.4b tonnes\* CO2
- LED display market forecast from 2022 to 2026 to grow by US\$11.5bn and reach US\$123bn by 2030.\*\*
- Ceramic coated separator sales in 2021 was US\$1.6b and is forecast to be US\$7.8b by 2028 at a 25% CAGR # #

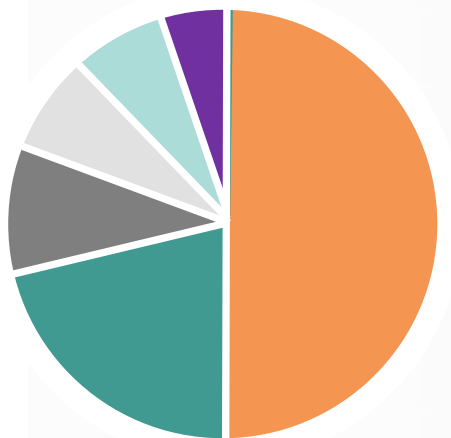
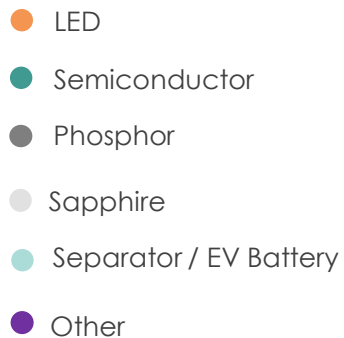


# HPA MARKET OVERVIEW

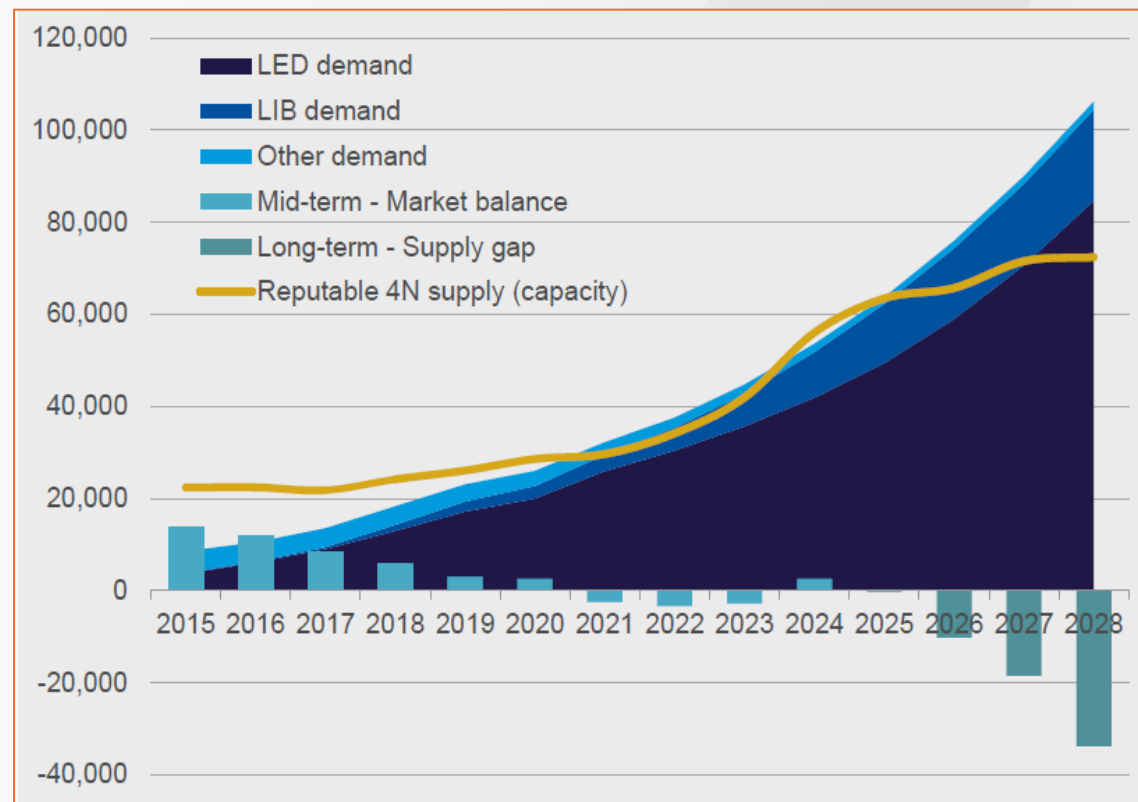
Global HPA markets are growing rapidly requiring high quality and reputable supply

- HPA growth has been invigorated in response to global investment in EV's as post COVID19 and critical minerals stimulus incentives achieve traction
- New applications and technologies have created increased demand and market opportunities

**Global High Purity Alumina Market – Share by Application (%)#**



**Forecast global HPA demand forecast (tpa)\***





# STRONG FOCUS ON MARKET ENGAGEMENT

**FYI is heavily engaged in HPA marketing and securing off-take**

Strong focus on market engagement in key market jurisdictions



Structured approach targeting off-take customers



Multiple rounds of meetings conducted  
(Taiwan/South Korea/Japan/ Europe/ USA/UK)



HPA trial product sent by request to market participants  
(HPA customers, traders)



Detailed product development trials to meet customer specifications



# HPA ALIGNS WITH GOVERNMENT POLICY

HPA is classified as a Critical Mineral



HPA contributes to increase in critical minerals supply chain and sovereign security ambitions of Australia



Captures significant value for Australia and FYI shareholders by upgrading low value raw materials to high value exports streams that were previously non-existent



Aligns with Western Australian and Australian Federal Govt policy, in relation to security of strategic minerals and downstream value capture



Contributes to global electrification, renewable energy production and storage and decarbonisation efforts



Creates additional opportunity for value capture and downstream processing in Australia of globally strategic critical minerals and future looking industries

## The Bigger Picture Driving HPA Growth

### **Governments objectives:**

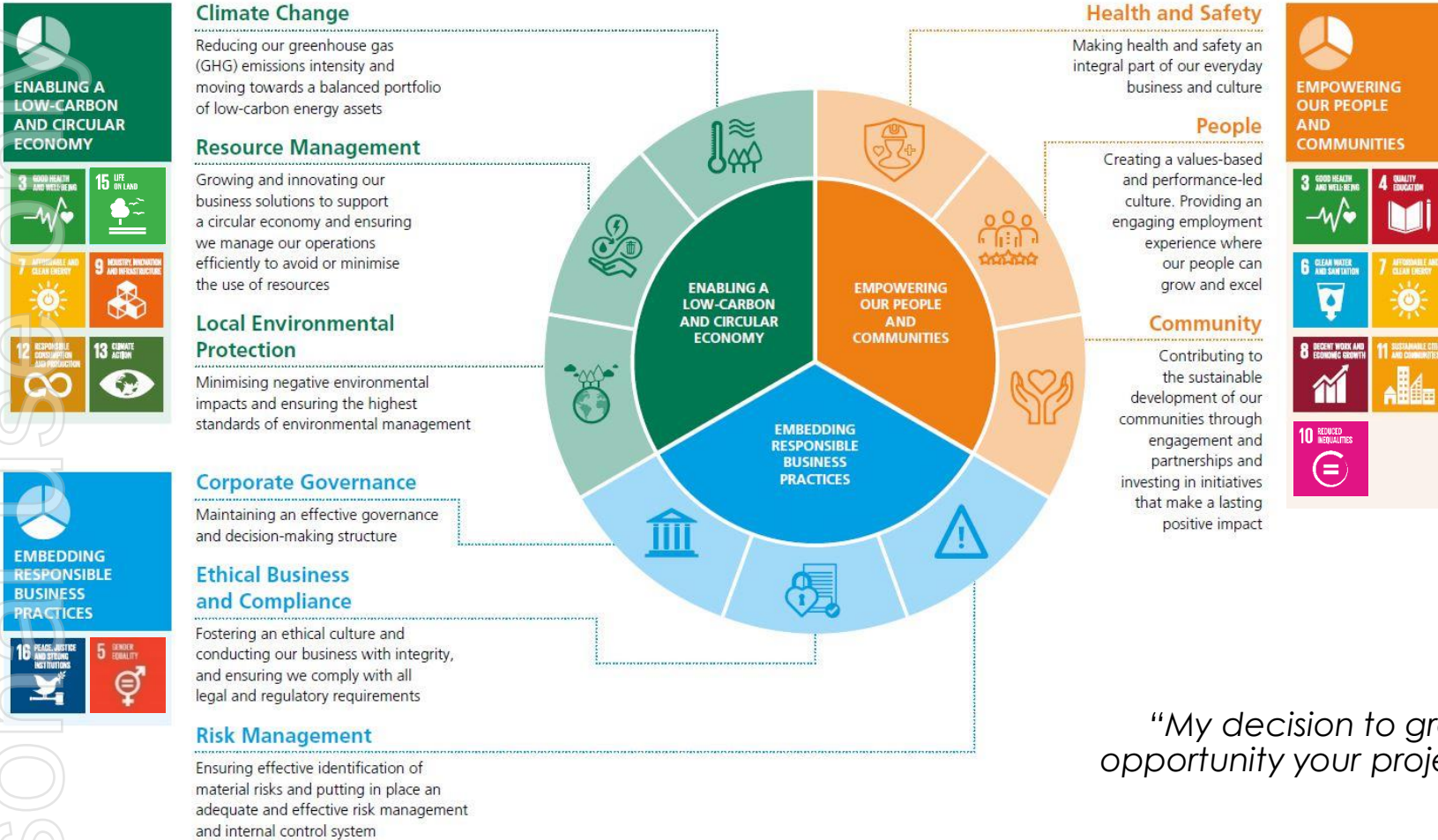
- National climate and resilience policy
- Decarbonisation
- Technology and Innovation

### **FYI's HPA plays a role in:**

- Energy transition to renewables
- Supply chain emissions reduction
- Supplier to connected business ecosystems for decarbonising

# FYI'S MISSION IS TO BE A LEADING CONTRIBUTOR TO A SUSTAINABLE WORLD

FYI is a member of the United Nations Global Compact (UNGC)



**SUSTAINABLE DEVELOPMENT GOALS**



*"My decision to grant Major Project status is based on the opportunity your project offers to contribute to the growth of the clean energy sector in Australia."*

**FEDERAL MINISTER FOR INDUSTRY, SCIENCE, ENERGY AND RESOURCES**

# FYI CORPORATE SUMMARY AND VALUE POINTS



Partnering with Tier 1 industry groups to become a dominant HPA producer



Robust integrated strategy founded on sound technical principles and project de-risking



Ideal planned project delivery timing coinciding with forecast market growth



Compelling integrated technical and geographical business model advantages



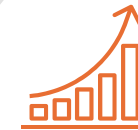
Implementing long-term sustainable ESG(E) standards and practice



Best-in-class project economics with lowest quartile capex and opex



De-risked and demonstrated development pathway



Excellent opportunity to participate in an emerging growth sector

*FYI is developing a long-life ultra high quality HPA project*





ersonal use only



**FOR FURTHER INFORMATION  
PLEASE CONTACT**

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