



DEVELOPING STRATEGIC HIGH PURITY ALUMINA (HPA)
CADOUX KAOLIN PROJECT IN WESTERN AUSTRALIA

PILOT PLANT OVERVIEW

INVESTOR NOTICE

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COMPETENT PERSONS' STATEMENTS

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 29 October 2018 and is available to view on the Company's website at www.fyiresources.com.au

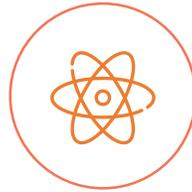
The information in this report that relates to Mineral Resources is based on information compiled by Mr Grant Louw, under the direction and supervision of Dr Andrew Scogings, who are both full-time employees of CSA Global. Dr Scogings is a Member of the Australasian Institute of Mining and Metallurgy 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

The information in this report that relates to metallurgy and metallurgical test work is based on information reviewed and compiled by Mr Daryl Evans, a Competent Person who is a Fellow of the Australian Institute of Mining and Metallurgy (AusIMM). Mr Evans is an employee of Independent Metallurgical Operations Pty Ltd, and is a contractor to FYI. Mr Evans 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 .

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.



HIGH PURITY ALUMINA (HPA)



HPA is a processed premium non-metallurgical alumina product characterised by its purity level – i.e. 99.99% (4N), 99.999% (5N).



HPA is mainly used for its superior properties, such as corrosion and scratch resistance, high brightness, and its ability to withstand extreme temperatures.

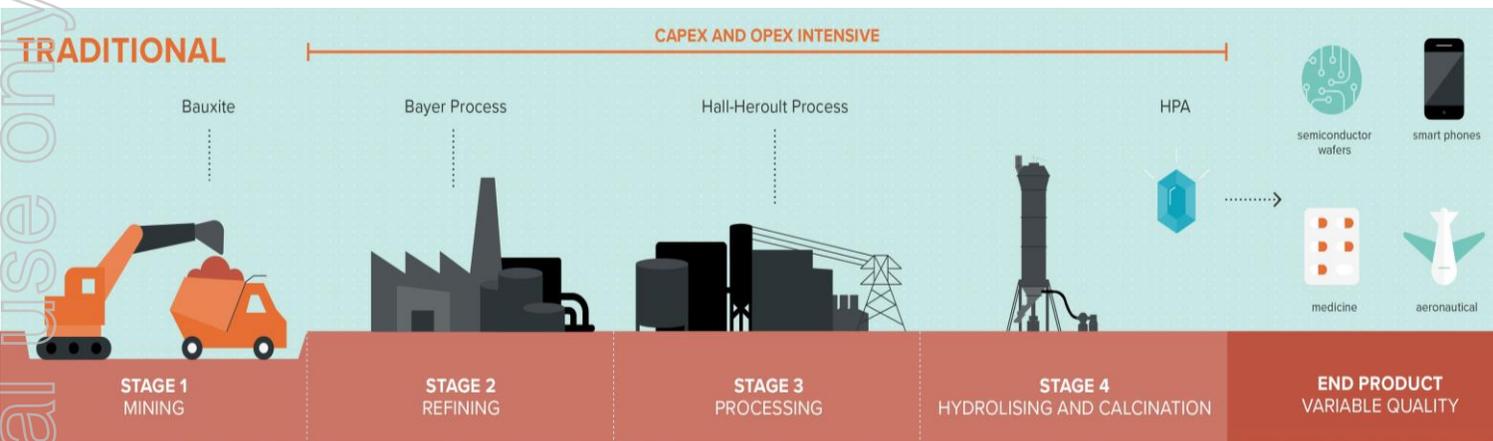


Currently HPA is sourced from expensive feedstock, such as refined aluminium metal sourced from bauxite using antiquated processing. **FYI plans to produce low-cost HPA from kaolin using innovative processing methods.**



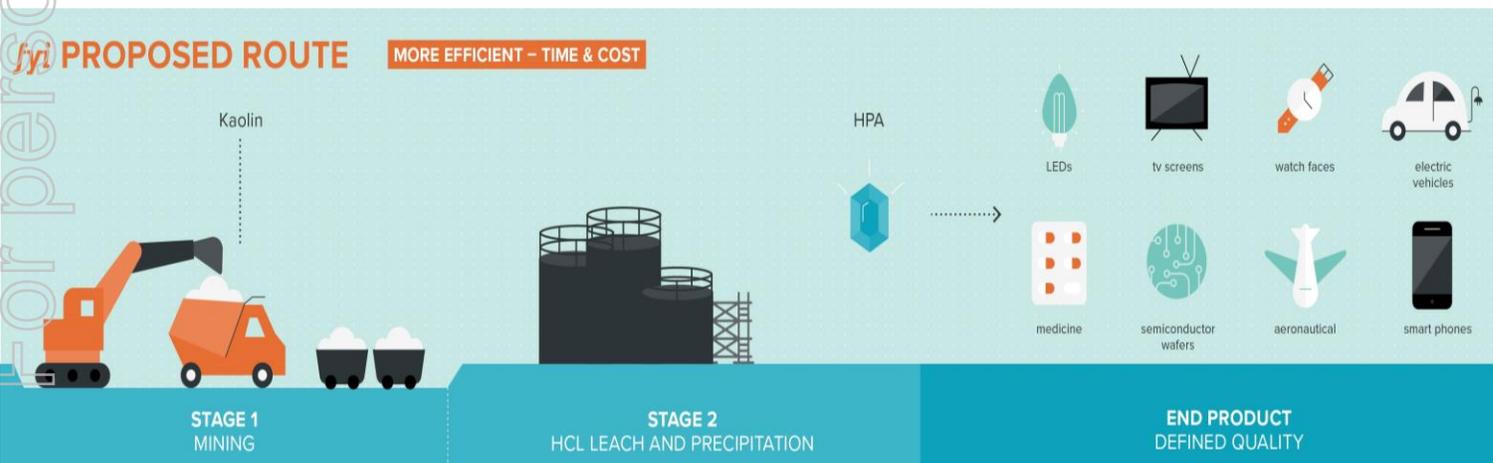
Applications include: LEDs, in the manufacture of artificial sapphire glass and in certain battery and static power storage components, aeronautical and medical applications

INNOVATING HPA PRODUCTION



Conventional Method

- HPA Derived from bauxite
- Extremely capex and opex intensive
- Inefficient 1880's process design
- Inconsistent end-product quality
- High level of unwanted impurities



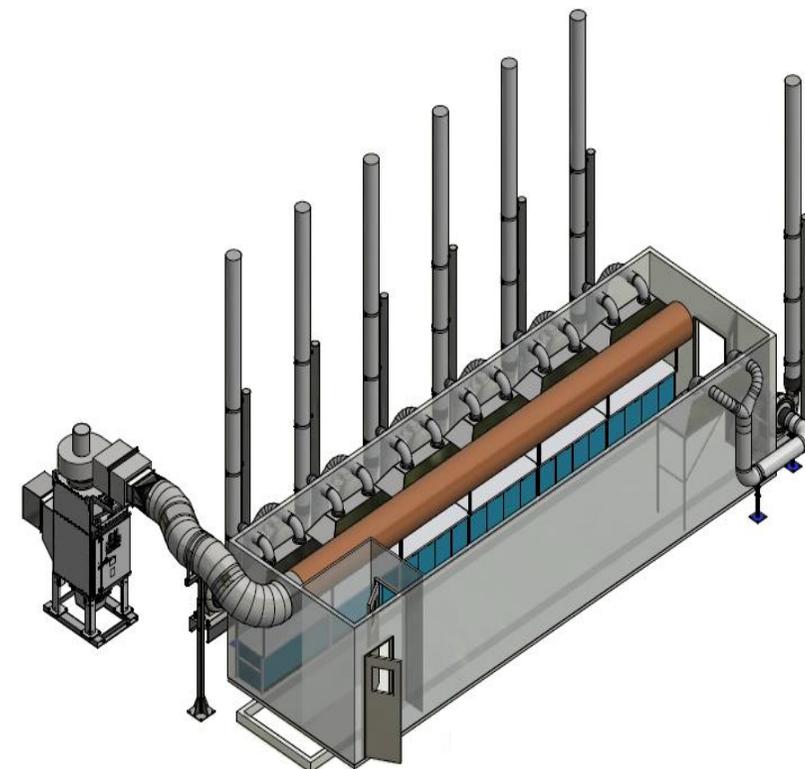
fyi's Innovative Method

- HPA derived from kaolin
- Simplified flowsheet, significantly reduced capex and opex
- "Open file" processing flowsheet and basic chemistry refined to suit Cadoux ore characteristics
- Consistent and reliable quality in end product
- Dependable supply for long term contracts

PILOT PLANT

A CRUCIAL STEP TOWARDS COMMERCIALISING FYI'S HPA STRATEGY

Cadoux established as a robust and commercially attractive project from its prefeasibility (PFS) study <i>(announcement 25 September 2018)</i>	September 2018
FYI commit to the construction of a pilot plant to further optimise the Company's HPA process flowsheet	February 2019
Initial R&D advance payment of \$300k received to develop pilot plant	March 2019
Additional \$250k R&D received and commencement of pre-commissioning	July 2019
Outstanding purity and consistencies achieved during commissioning trials	September 2019
Construction and commissioning completed, Continuous "end to end" production trials commence	October 2019



Schematic isometric view of FYI's HPA pilot plant

WHY A PILOT PLANT?

FYI believes that the pilot plant will be essential in determining project success and economics as the HPA strategy moves towards commercialization



Demonstrating quality HPA product for end users and customers



Increase certainty of the flowsheet for potential offtake parties



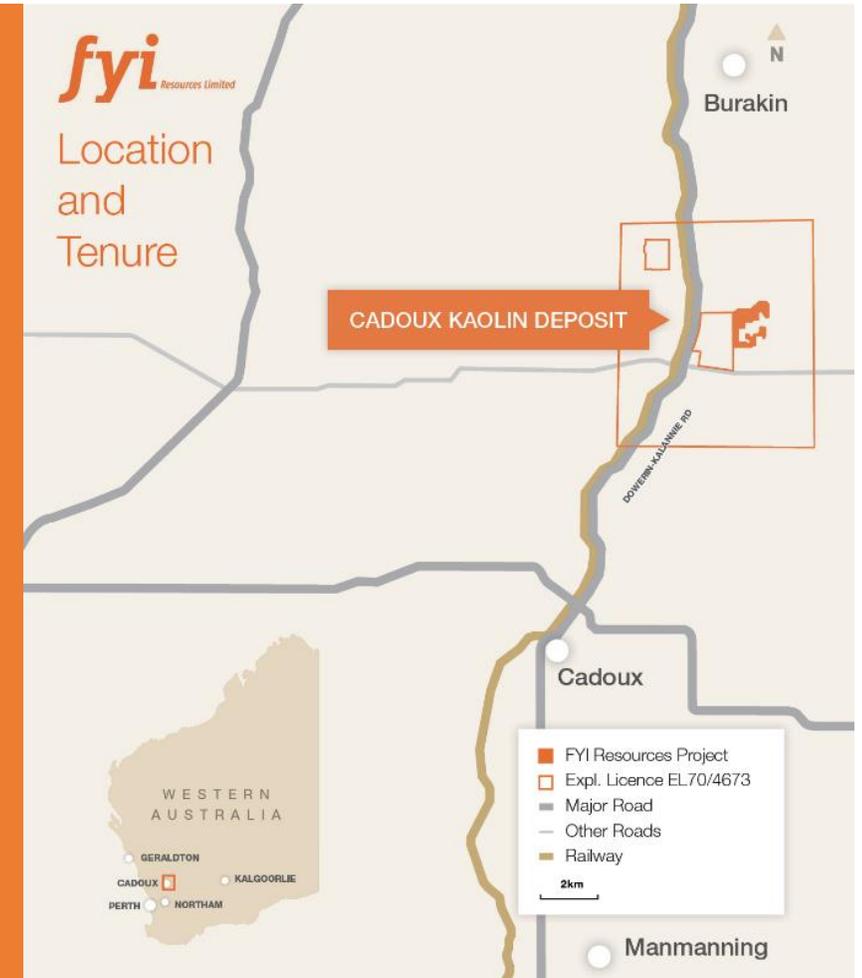
Further de-risk the project for future major investors



Confirm outstanding economics and help secure project finance

FYI HAS IDEAL FEEDSTOCK FOR LONG-LIFE, QUALITY HPA STRATEGY

- ⇒ The 100% owned Cadoux Kaolin Project boasts **excellent quality resource and project infrastructure**
- ⇒ **Deposit geology is ideal** – shallow, flat lying, low strip, free digging, homogenous excellent quality & easily accessible
- ⇒ Extensive drilling, **well understood geology** - Detailed mine study completed, reserves calculated, first 3 years of grade control
- ⇒ Excellent characteristics, quality, grade and low deleterious elements – **extremely amenable to HPA processing**
- ⇒ 100% owned project area private land, no native title. **Permitting completed.**
- ⇒ Reserve of 2.89 million tonnes grading 24.4% Al₂O₃ **supports PFS mine life of 25+ years***.
- ⇒ Project Resource could support mine life extension



* See ASX announcement – 29 October 2018

FYI'S SIMPLE & INNOVATIVE FLOWSHEET DESIGN

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Developed for Cadoux's specific quality and characteristics



Designed for efficiency, heavy duty, low maintenance and long life



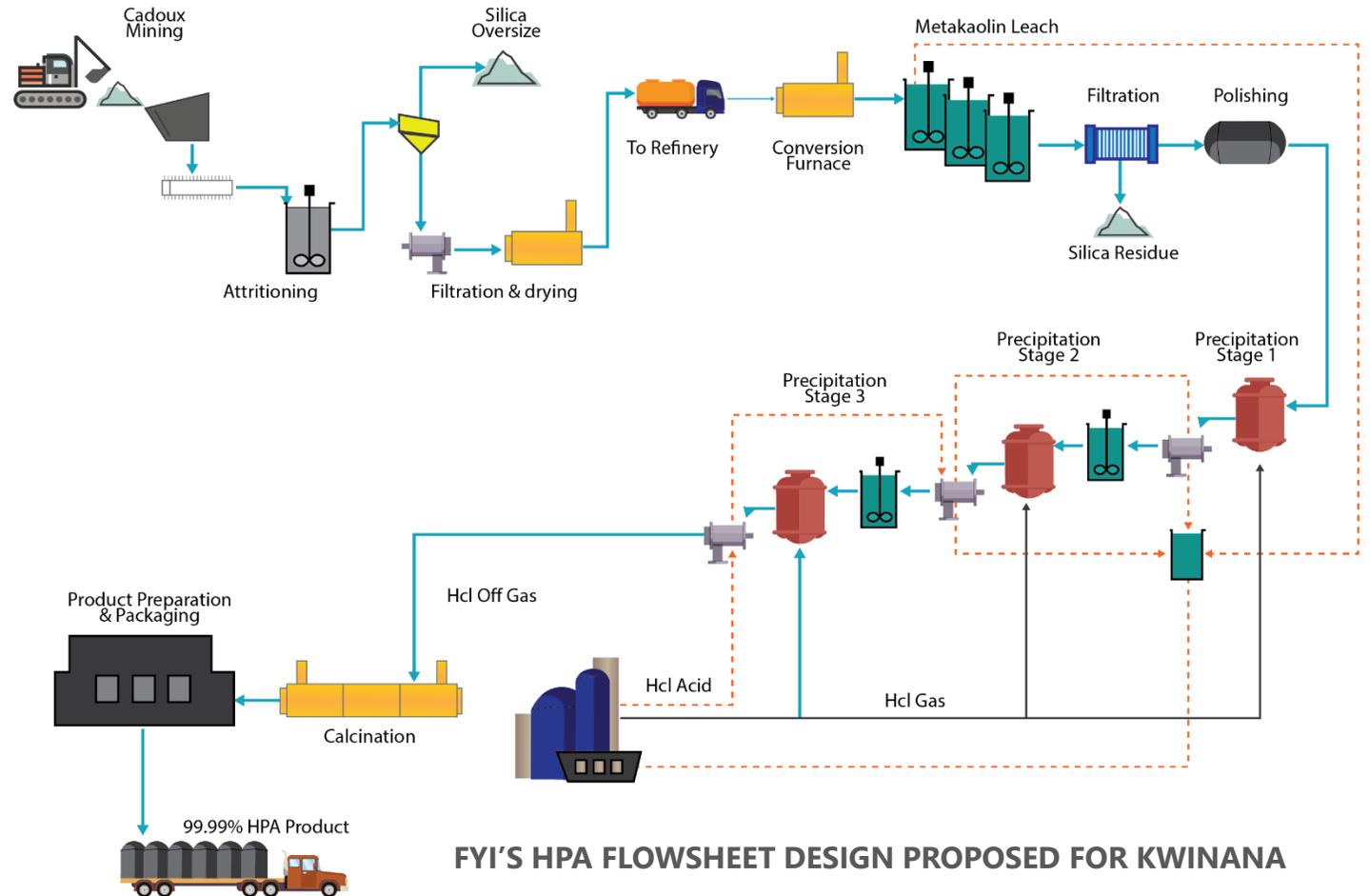
Successfully demonstrated high target grade and excellent recoveries



Low environmental footprint (non-toxic waste / low energy usage / recycling of inputs)



Commercial sized processing plant planned for Kwinana's 'Battery Alley'



FYI'S HPA FLOWSHEET DESIGN PROPOSED FOR KWINANA

WHAT DOES A PILOT PLANT ACHIEVE?

THE PILOT PLANT WILL VALIDATE CADOUX'S POTENTIAL BY:

- Supporting the PFS laboratory test work findings
- Observing materials handling from "end to end"
- Further optimising system design and capacity
- Confirming equipment and process circuit requirements
- Assist in quantifying future production Capex and Opex parameters
- Lowering overall project risk by verifying process efficiency, yields and target grades
- Producing HPA for test product applications and verification



Images of FYI's HPA pilot plant commissioning

WHAT WILL THE PILOT PLANT TEST?

- HPA purity grade and consistency of product
- Processing effects of variable grades and deleterious material
- To conceptually trial FYI's innovative flowsheet characteristics and efficiencies
- To observe and understand the material handling from "end to end"



FYI's HPA pilot plant commissioning

WHAT'S DRIVING THE MARKET?

TRADITIONAL MARKET



Light Emitting Diode (LED)

The LED market is forecast to grow from US\$26Bn (2016) to US\$54Bn by 2022 and progressively take the major share of the global lighting market of US\$110Bn***

THE MARKET FOR HPA IS WITNESSING DRAMATIC GROWTH

HPA MARKET FORECAST TO BE US\$4.49BN BY 2022*

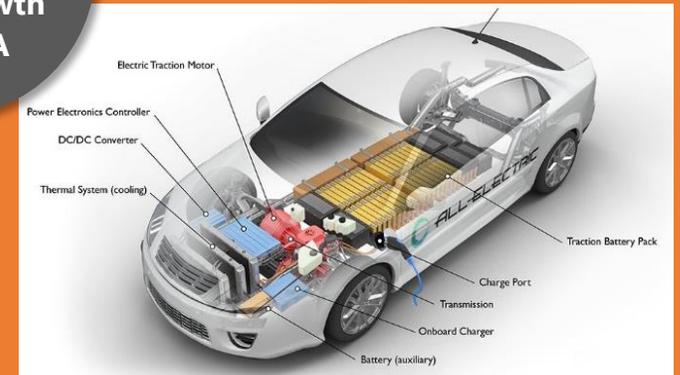
INCLUDING A FORECAST VOLUME GROWTH OF 20.5% CAGR*

Driven by:

- A broad range of products and applications
- Incremental penetration into traditional markets
- Increasing per capita energy demand driving high specification energy efficient products
- Disruption issues to traditional supply
- Increasing stringent regulations on bauxite mining globally

Key applications driving long-term growth for HPA

NEAR TERM GROWTH



Electric Vehicles (EV)

The EV battery market is forecast to grow from US\$450Mn (2016) to US\$35Bn (2025)**

Gigafactory capacity will surpass 1,000 GWh within the next 5 years

HPA MARKET OVERVIEW

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HPA FORMS A SIGNIFICANT PART IN HIGH-PERFORMANCE ELECTRONICS



Historically a small market – no justification for product innovation



New applications and technologies have created demand and market opportunities

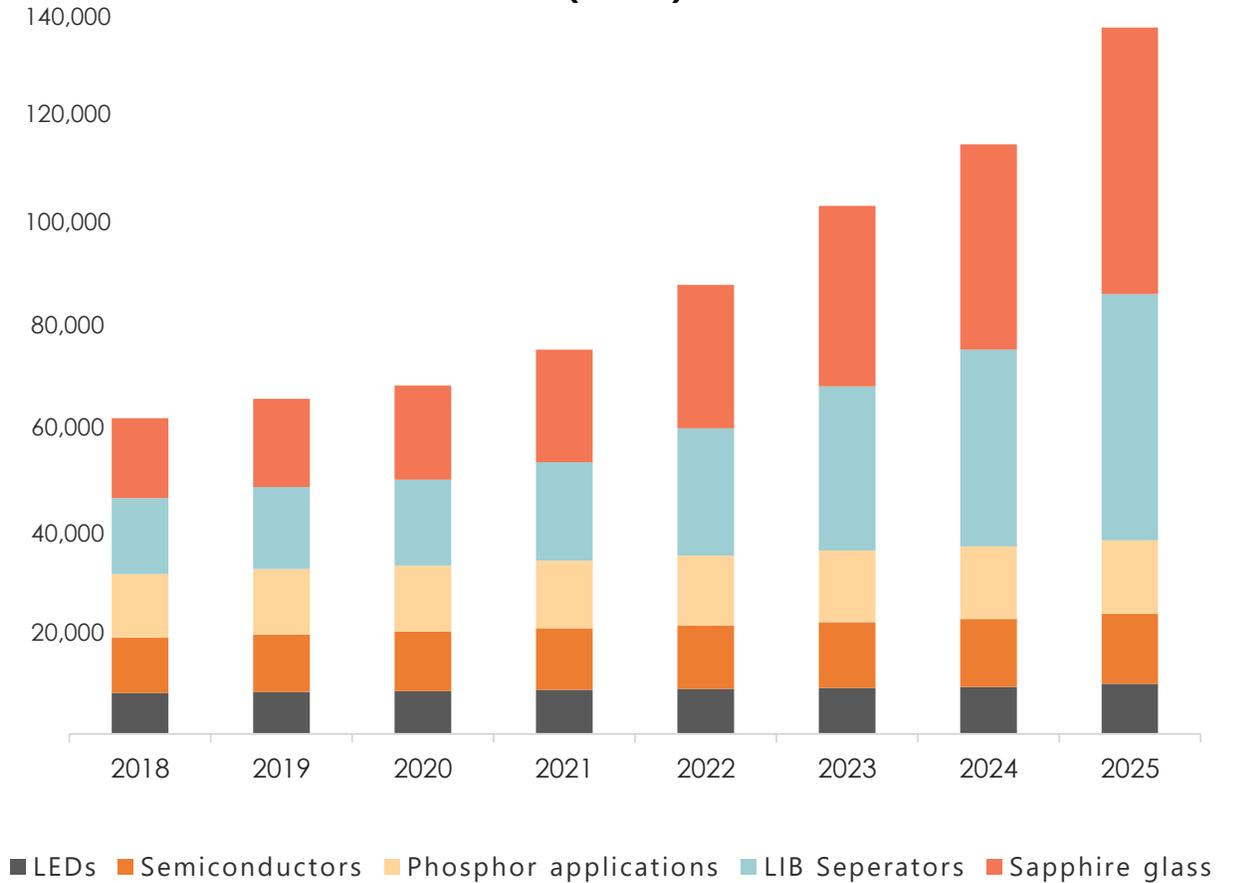


The current global 4N HPA market demand is ~60ktpa; this is expected to increase to **>120ktpa by 2025***



The market for HPA is witnessing dramatic consumer driven growth, with the **HPA market forecasted to be US\$4.49Bn by 2022****

HPA FORECASTED DEMAND GROWTH (KTPA)



FYI HPA - PFS PROJECT ECONOMICS

ITEM	UNIT	AMOUNT
HPA production	tpa	8,000 (with capacity to expand)
Production grade	Al ₂ O ₃	> 99.99%
Capital cost	US\$m	178.8
Capital cost / t	US\$/t	22,344
Forecast average cost of production (C1)	US\$/t	6,467
Assumed HPA selling price / t	US\$/t	24,000
Operating margin	US\$/t	17,533
Operating margin	%	~270
Exchange rate	A\$:US\$	0.75
Average annual EBITDA	US\$m	128
First phase of operations - total revenue (> 50 years)	US\$m	11,376
First phase of operation - annual revenue	US\$m	190
Project NPV	@10%	506
Project IRR	%	46
Project payback	yrs	3.6

KEY RE-RATING MILESTONES

Progressing towards project development following an excellent PFS and commencement of pilot plant trial production

Pilot plant commissioning



Last stage (7th) of locked cycle testwork



Pilot plant trial production



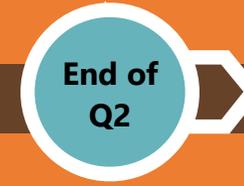
Detailed Engineering



Product forwarded to customers (3 weeks of qualification)



Complete DFS



Project financing

FYI SUMMARY



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



PFS suggests project economics demonstrate lowest quartile capex and opex



Innovative processing route delivering superior quality product



Compelling technical & geographical and business model advantages



Positive long-term market fundamentals



Expert study manager team and capabilities for successful project delivery



Argument for ideal project delivery timing coinciding with forecast market growth



Ground floor entry to an emerging growth sector with significant upside

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