

HIGH PURITY SUSTAINABLE GROWTH

AGM 2023

CAUTIONARY STATEMENT

The Definitive Feasibility Study (DFS) referred to in this presentation has been undertaken to assess the technical and financial viability of the HPA First project. The DFS is based on the material assumptions about the availability of funding and the pricing received for HPA. 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 outcomes indicated by this DFS will be achieved. To achieve the range of outcomes indicated in the DFS, additional funding will 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 HPA First project. If it does, this could materially reduce the Company's proportionate ownership of the HPA First project. Given the uncertainties involved, investors should not make any investment decisions based solely on the results of the DFS.

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12 MONTH HIGHLIGHTS

HPA FIRST PROJECT

STAGE 1 PPF – SUCCESSFUL COMMISSIONING AND PRODUCTION

- Major technical validation
- Enabled key customer engagement
 - Tonnage scale orders received
 - Commenced HPA sales SK semi-sector
 - Unlocked sapphire opportunity
- Enabled key Govt support
 - \$15.5M Critical Minerals grant

STAGE 2

- Global customer engagement across multiple products
- Stage 2 DFS finalising
- Project finance support from EFA & NAIF
- \$66.7M Grants support approved

ALPHA SAPPHIRE



Alpha **SAPPHIRE**

ALPHA SAPPHIRE – FUNDED TO CASHFLOW

- Key technology partnership with Ebner-Fametec
- \$60M funding in place
- Includes \$30M from QIC
- Strategic support from AustralianSuper and Orica

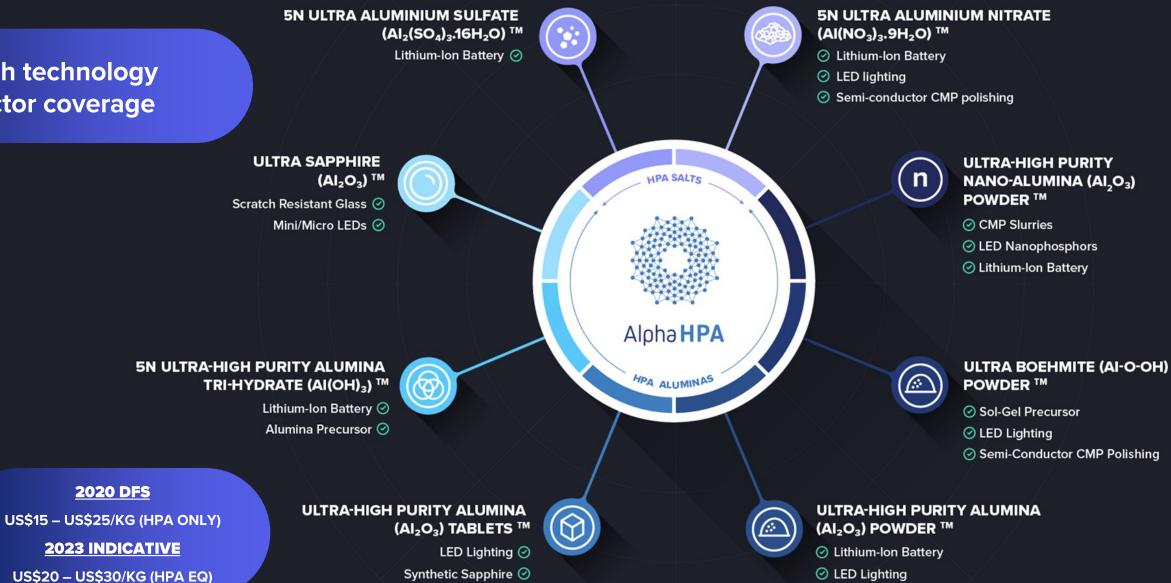






PROCESS FLEXIBILITY

High technology sector coverage



Semi-Conductor CMP Polishing

PRODUCTS FOR HIGH TECHNCOLOGY DE-CARBONISATION

Product demand linked to sector growth + decarbonisation + supply chain de-risking

E-MOBILITY



- HPA for Li-B separators
- HPA for Li-B cathode
- HP precursors for Li-B anodes

SEMICONDUCTORS



- Boehmites for CMP slurry
- Al-Nitrates for CMP slurry
- Nano HPA for CMP slurry (for SiC chips)

LED



- HPA for LED sapphire substrates
- HPA for LED phosphors
- Synthetic sapphire glass

MACRO TAILWINDS

Alpha's market entry timing is well supported by constructive macro themes

DE-CARBONISATION

End-user commitments on decarbonising supply.

- Targeting key de-carbonisation sectors
 - LED lighting
 - LiB battery sector
 - High Power semiconductors
- 75% of worlds largest companies have net-zero commitments by 2050*
- Alpha likely represents lowest carbon HPA process globally
- Alpha's product carbon footprint (PCF) independently verified by CarbonChain
- Silver medal Sustainability rating from EcoVadis

DE-RISKING SUPPLY CHAINS

Global Corporate and Government Focus on de-risking supply chains

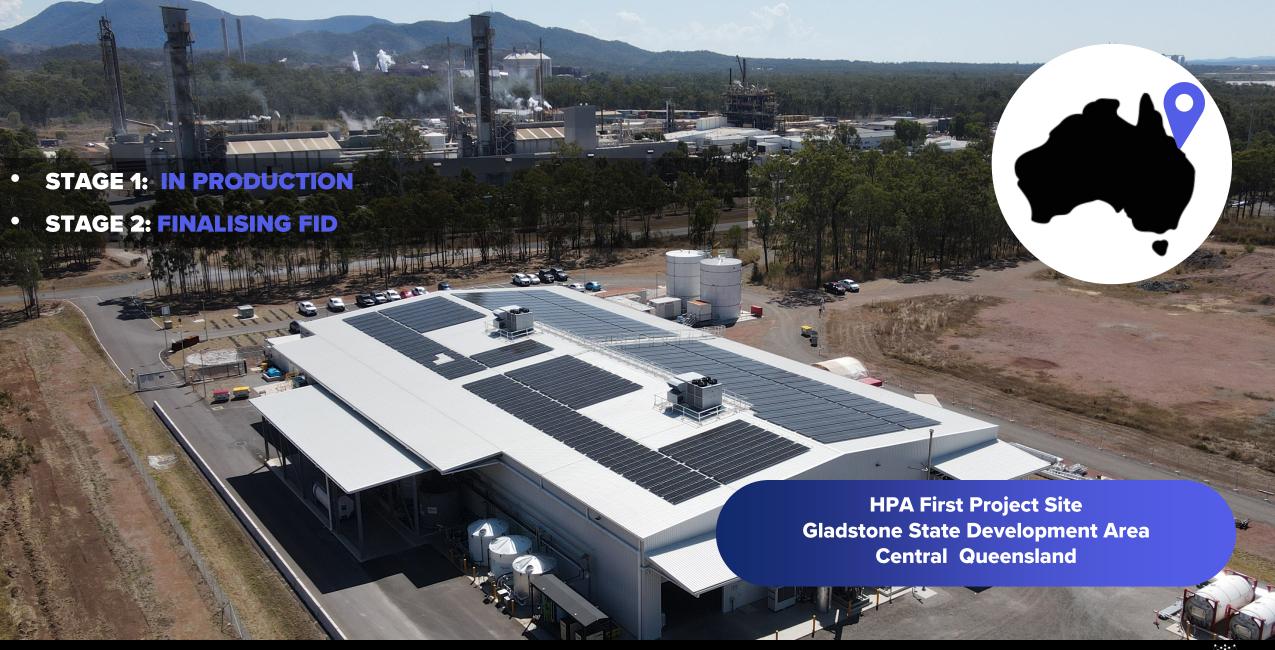
- Re-shoring and friend-shoring
- Focus on foreign entities of concern
- Inflation Reduction Act (US)
- Chips and Science Act (US)
- European Chips Act
- Australia-United States Climate,
 Critical Minerals, and Clean Energy
 Transformation Compact

STRONG GOVT SUPPORT

State and Federal Govt Support for mid-stream processing in target sectors

- HPA is a Critical Mineral
- Strong alignment with the Critical Minerals Strategy
- \$15.5M Critical Minerals Grant
- \$45M Commonwealth MMI-C Grant
- \$21.7M QLD State IPP Grant
- EFA Letter of Support
- NAIF Strategic Assessment Phase Approval

^{*} Source: Saint Gobain



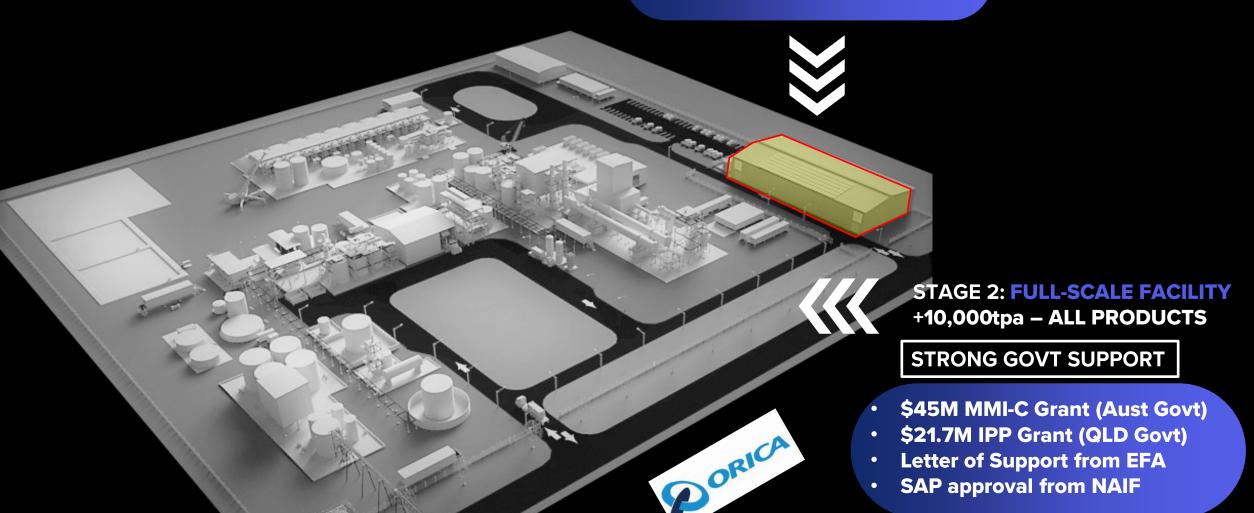




PROJECT LAYOUT:

STAGE 1: IN PRODUCTION +350tpa - ALL PRODUCTS

A\$15.5M Critical Minerals Grant
Under Deployment

















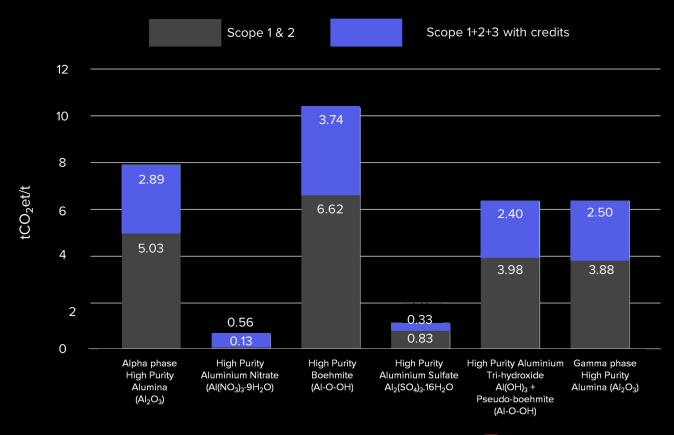






ESG: WORLD LEADING EMISSIONS

50-70% lower CO₂ emissions over incumbent (alkoxide) process



Independent emissions analysis by



~71% lower total emissions in feedstock and production process combined compared to the incumbent process

EMISSIONS REDUCTIONS

- 1. We do not use Al metal as feedstock
- 2. We recycle our reagents
- 3. We use 100% renewable energy



ESG: INDEPENDENT CERTIFICATION



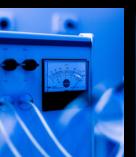
















ALPHA SAPPHIRE: ADDING DOWNSTREAM VALUE TO HPA







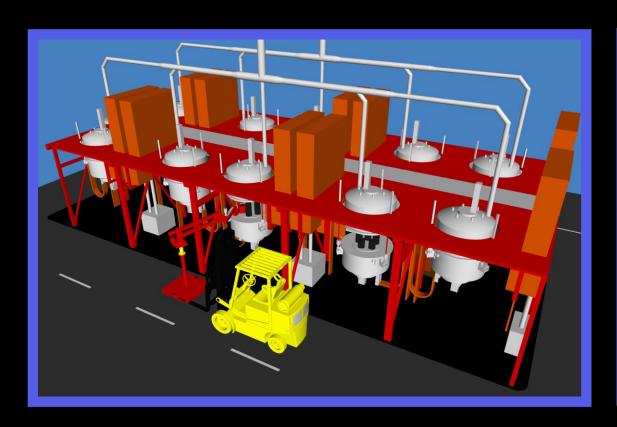


- March 2023: Agreements with Ebner-Fametec for entry into sapphire glass production
- June 2023: Expanded agreements for up to 1,000 growth units
- Unique supply/demand dynamics, favourable to new market entry
- Estimated **10x net revenue uplift** per alumina unit
- September 2023: \$30M QIC funding to secure sapphire business for QLD
- November 2023: \$40M equity financing to match QIC First 50 units fully funded





ALPHA SAPPHIRE: UNIQUE SECTOR OPPORTUNITY





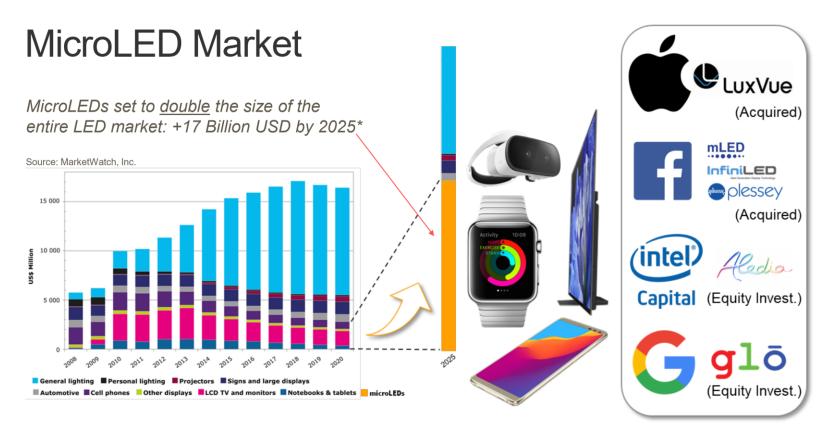
- **Technology Disruption:** Access to new Ebner-Fametec Technology
- Supply Crunch: End-user desire to de-link from Russia-China production
- **Demand Pull:** Major new demand from micro-LED adoption





Micro LEDs: THE LED MARKET MULTIPLIER

- Market analysts have forecast the adoption of micro-LEDs since 2015
- The recent confirmation that Apple is now making the move is considered highly significant, with the potential
 to double existing LED market
- https://appleinsider.com/articles/23/01/15/apple-plans-microled-displays-in-everything-after-2024-apple-watch-ultra-update
- https://www.bloomberg.com/news/articles/2023-01-11/apple-to-begin-making-in-house-screens-in-2024-in-shift-away-from-samsung?sref=mNNF3hqD
- https://www.electrooptics.com/analysis-opinion/microleds-prepare-take-flight





CORPORATE SNAPSHOT

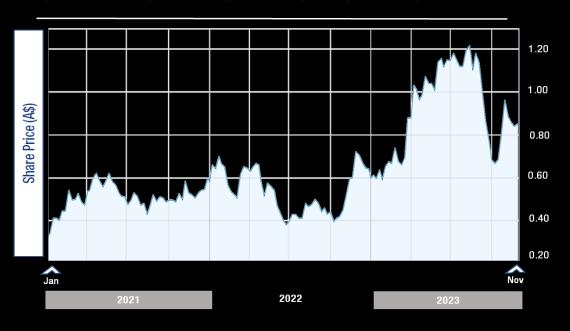
TRADING INFORMATION

ASX CODE	A4N
Share Price (27/11/2023)	~\$0.85c
52-week trading range	\$0.56 – \$1.22
Issued Shares	933.8M

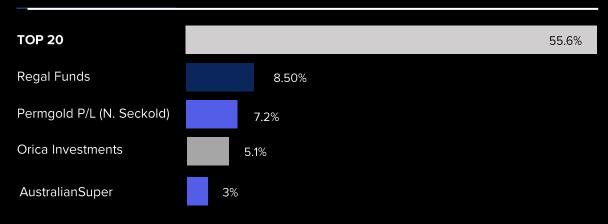
CAPITAL STRUCTURE

Issued Shares	933.8M
Unlisted options (@90c) Unlisted options (@90c)	8.96M (expire 30 April 2025) 3M (expire 31 Aug 2025)
Market Cap	~\$794M
Est Cash (08/11/2023)	~\$45M – No Debt
Enterprise Value	\$749M

SHARE PRICE PERFORMANCE – 3 YEARS



SHAREHOLDERS



Thank You

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