



Alpha **HPA** 



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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

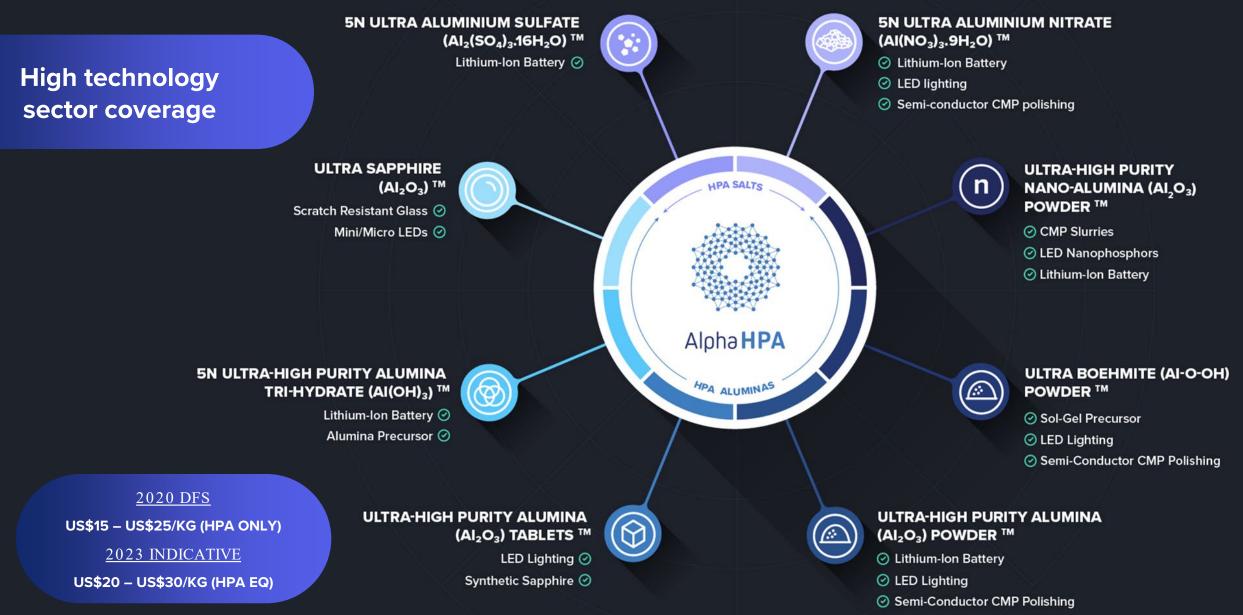






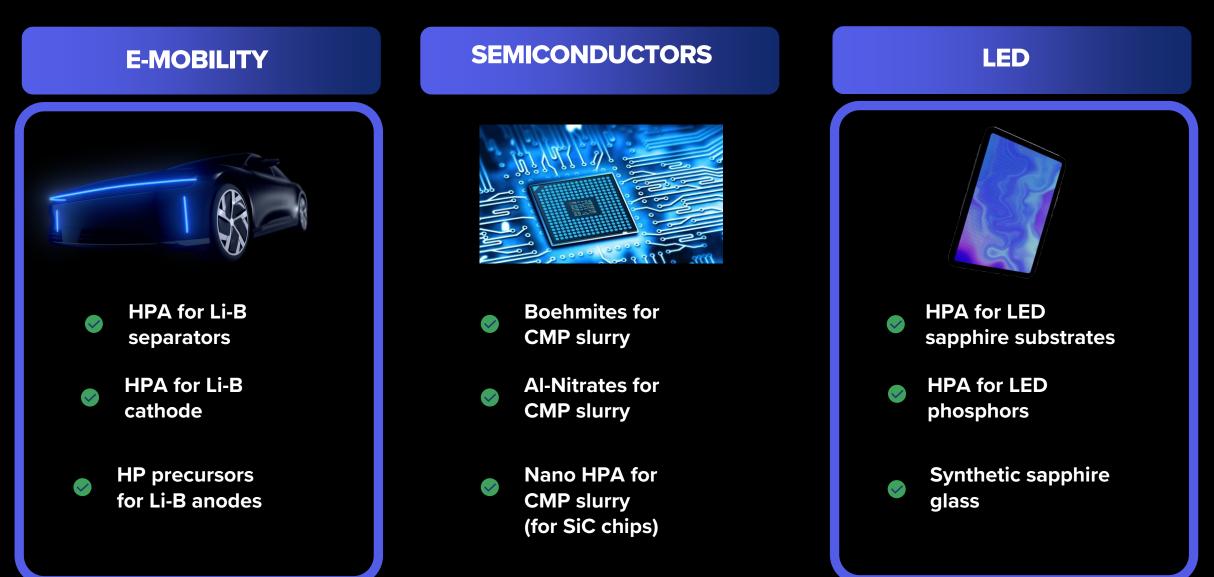
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#### **PROCESS FLEXIBILITY**



### **PRODUCTS FOR HIGH TECHNCOLOGY DE-CARBONISATION**

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



### **MACRO TAILWINDS**

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

<b>DE-CARBONISATION</b>	<b>DE-RISKING SUPPLY CHAINS</b>	STRONG GOVT SUPPORT
End-user commitments on decarbonising supply.	Global Corporate and Government Focus on de-risking supply chains	State and Federal Govt Support for mid-stream processing in target sectors
<ul> <li>Targeting key de-carbonisation sectors</li> <li>LED lighting</li> <li>LiB battery sector</li> <li>High Power semiconductors</li> </ul>	<ul> <li>Re-shoring and friend-shoring</li> </ul>	<ul> <li>HPA is a Critical Mineral</li> </ul>
	<ul> <li>Focus on foreign entities of concern</li> </ul>	<ul> <li>Strong alignment with the Critical</li> </ul>
	Inflation Reduction Act (US)	Minerals Strategy
75% of worlds largest companies have net-zero commitments by 2050*	<ul> <li>Chips and Science Act (US)</li> </ul>	\$15.5M Critical Minerals Grant
	<ul> <li>European Chips Act</li> </ul>	\$45M Commonwealth MMI-C Grant
Δlpha likely represents lowest carbon		• \$21.7M OLD State IBB Grant

- Alpha likely represents lowest carbon HPA process globally
- Alpha's product carbon footprint (PCF) independently verified by CarbonChain
- Silver medal Sustainability rating from EcoVadis

 Australia-United States Climate, Critical Minerals, and Clean Energy Transformation Compact

- EFA Letter of Support
- NAIF Strategic Assessment Phase Approval

- STAGE 1: IN PRODUCTION STAGE 2: FINALISING FID •
- •

HPA First Project Site Gladstone State Development Area Central Queensland

### HPA FIRST PROJECT: GLADSTONE QLD

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## **PROJECT LAYOUT:**

#### STAGE 1: IN PRODUCTION +350tpa – ALL PRODUCTS

A\$ 15.5 M Critical Minerals Grant Under Deployment

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STAGE 2: FULL-SCALE FACILITY +10,000tpa – ALL PRODUCTS

#### STRONG GOVT SUPPORT

- \$45M MMI-C Grant (Aust Govt)
- \$21.7M IPP Grant (QLD Govt)
- Letter of Support from EFA
- SAP approval from NAIF



## **STAGE1: IN PRODUCTION**

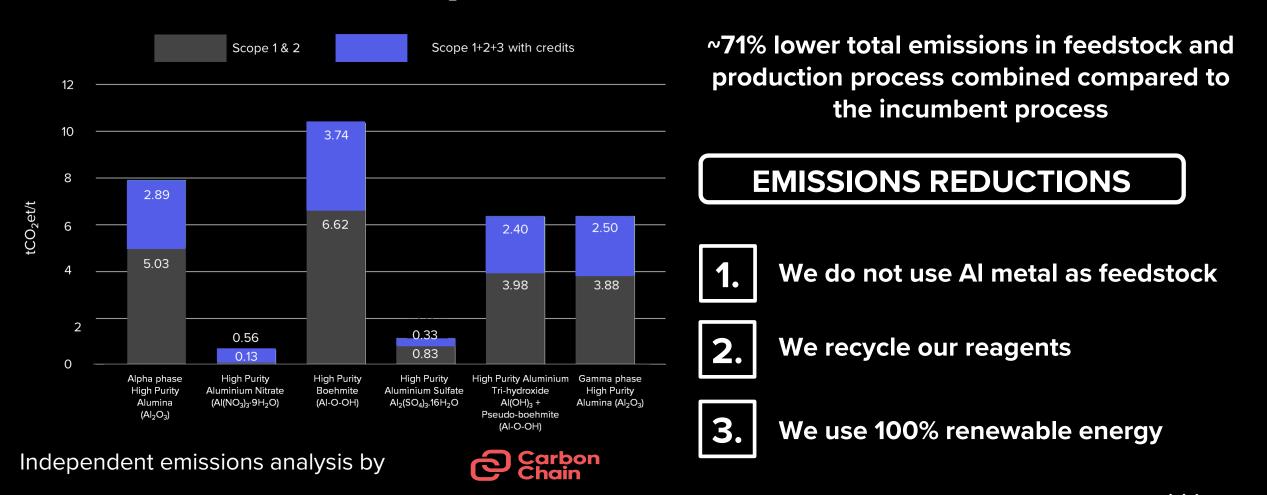
### **STAGE 1: HPA EXPANSION NOW COMMISSIONING**





### **ESG: WORLD LEADING EMISSIONS**

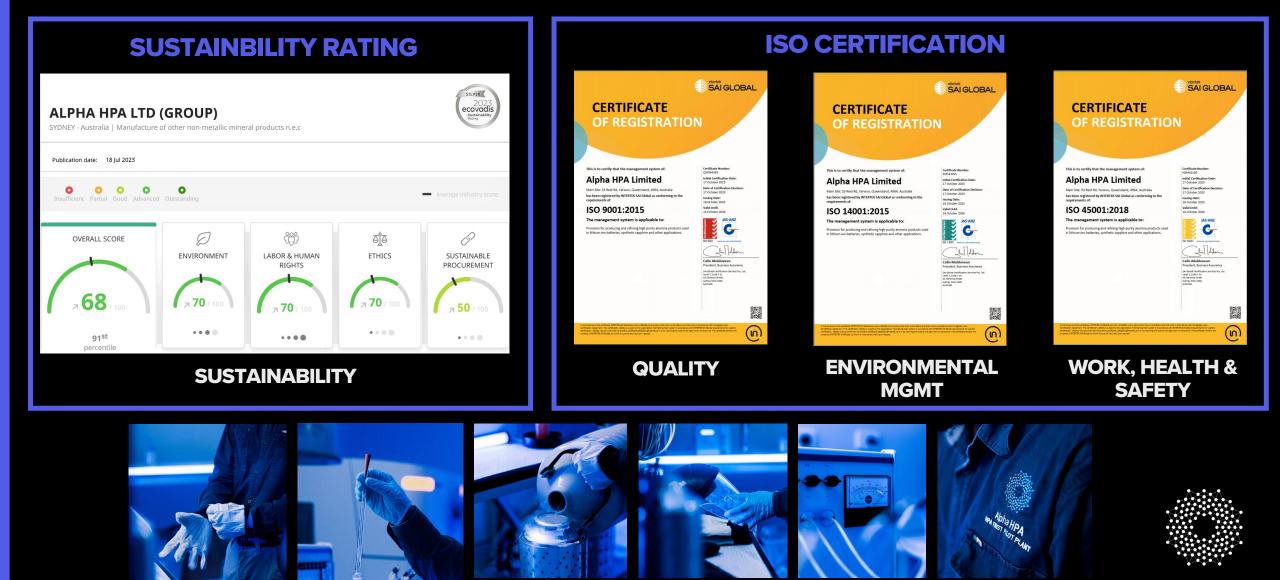
50-70% lower  $CO_2$  emissions over incumbent (alkoxide) process





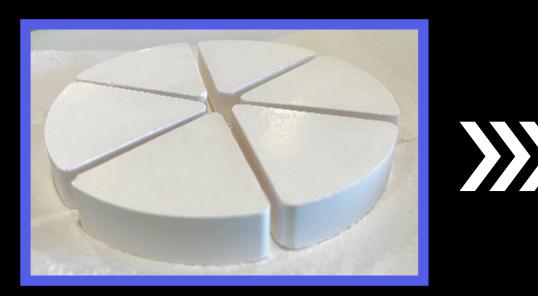
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#### **ESG: INDEPENDENT CERTIFICATION**



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### **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** 



#### **ALPHA SAPPHIRE: UNIQUE SECTOR OPPORTUNITY**



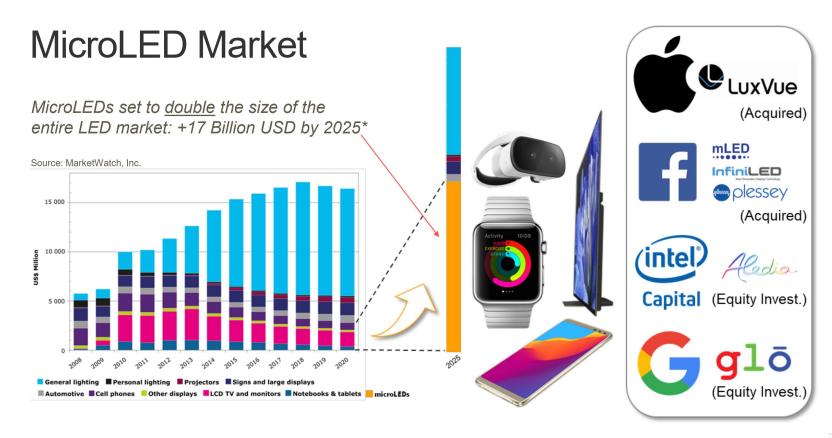
- Technology Disruption: Access to new Ebner-Fametec Technology
- Supply Crunch: End-user desire to de-link from Russia-China production
- **Demand Pull:** Major new demand from micro-LED adoption





# **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
- <u>https://appleinsider.com/articles/23/01/15/apple-plans-microled-displays-in-everything-after-2024-apple-watch-ultra-update</u>
- <u>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</u>
- <u>https://www.electrooptics.com/analysis-opinion/microleds-prepare-take-flight</u>





## **CORPORATE SNAPSHOT**

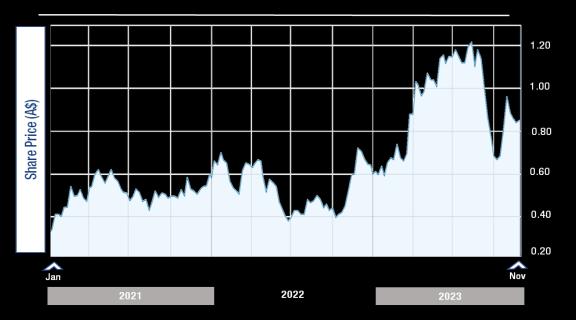
#### TRADING INFORMATION

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

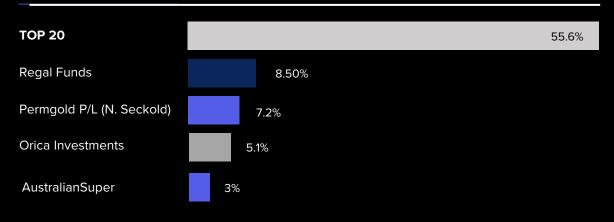
#### **CAPITAL STRUCTURE**

Issued Shares	933.8M
Unlisted options (@90c)	8.96M (expire 30 April 2025)
Unlisted options (@90c)	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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