



ADVANCED
ENGINEERED MATERIALS

Personal use only

Investor Presentation

Roadshow September 2026

Important Notices and Disclaimer

This presentation (**Presentation**) has been prepared by Advanced Engineered Materials Ltd (ACN 095 907 565) (**AEM** or the **Company**) and provides general information about the Company and its business.

Information in this Presentation

The information in this Presentation is of a general background nature, is in summary form and does not purport to be complete or comprise all information regarding AEM. The information contained in this Presentation is current as at the date of this Presentation or such earlier date as specified in this Presentation.

The information in this Presentation is subject to change without notice. No representation or warranty, express or implied, is made by AEM or any of its advisers as to the accuracy, adequacy, completeness or reliability of any statements, estimates, opinions, forecasts, reports or other information contained in this Presentation. This Presentation is not a prospectus, product disclosure statement or other disclosure document for the purposes of Chapter 6D or Part 7.9 of the Corporations Act or other offer document under Australian law or the law of any other jurisdiction, including the United States and does not purport to contain all of the information that is required to be included in such documents, including all information about the assets and liabilities, financial position and performance, profits and losses, prospects, and the rights and liabilities attaching to securities.

Not Financial or Product Advice

This Presentation is for information purposes only and does not contain or purport to contain, an offer, invitation, solicitation or recommendation to subscribe for or purchase or sell any securities in AEM in any jurisdiction. This Presentation is not intended to be, and does not constitute, legal, taxation, financial product or investment advice or a recommendation to acquire securities in AEM. This Presentation will not be lodged with, approved by or registered with the Australian Securities and Investments Commission (**ASIC**) or any other regulator in any jurisdiction. It has been prepared without taking into account the objectives, financial situation or needs of any person. A recipient of this Presentation is solely responsible for forming their own opinions and conclusions on matters and for making their own independent assessment of the information provided and in the case of any doubt should consult a financial, legal or other adviser.

No Distribution

This Presentation has been prepared for publication in Australia and may not be released to US wire services or distributed in the United States. This Presentation does not constitute an offer to sell, or a solicitation of an offer to buy, securities in the United States or any other jurisdiction.

No securities of AEM have been, nor will be, registered under the US Securities Act of 1933 or the securities laws of any state or other jurisdiction of the United States, and no securities of AEM may be offered or sold in the United States except in transactions exempt from, or not subject to, the registration requirements of the US Securities Act and applicable US state securities laws.

Persons who come into possession of this Presentation should observe any such restrictions as any noncompliance could contravene applicable securities laws.

Future Performance

The Presentation contains certain "forward-looking statements". The words "forecast", "expect", "anticipate", "estimate", "intend", "believe", "guidance", "should", "could", "may", "will", "target", "predict", "plan" and other similar expressions are intended to identify forward-looking statements. Indications of, and guidance on, future earnings and financial position and performance are also forward-looking statements. Forward-looking statements, opinions and estimates provided in this Presentation are based on assumptions and contingencies which are subject to change without notice and involve known and unknown risks and uncertainties and other factors which are beyond the control of AEM, and its directors and management, and may involve significant elements of subjective judgement and assumptions as to future events which may or may not be correct. This includes statements about market and industry trends, which are based on interpretations of current market conditions.

Forward-looking statements are provided as a general guide only and should not be relied upon as an indication or guarantee of future performance. Actual results, performance or achievements may differ materially from those expressed or implied in such statements and any contingencies and assumptions on which these statements are based. Recipients are cautioned not to place undue reliance on forward-looking statements and except as required by law, no representation or warranty, express or implied, is made as to the accuracy, likelihood of achievement or reasonableness of any forecasts, prospects, assumptions, returns, contingencies or statements in relation to future matters contained in this Presentation. The forward-looking statements are based on information available to AEM as at the date of this Presentation. Except as required by law, none of AEM, its representatives or advisers undertakes any obligation to provide any additional or updated information whether as a result of a change in expectations or assumptions, new information, future events or results or otherwise. Indications of, and guidance or outlook on, future earnings or financial position or performance are also forward-looking statements.

Important Notices and Disclaimer (cont.)

No Warranty and Disclaimer

No party other than AEM has authorised or caused the issue, lodgement, submission, dispatch or provision of this Presentation, or takes any responsibility for, or makes or purports to make any statements, representations or undertakings in this Presentation. To the maximum extent permitted by law, AEM including its subsidiaries, related bodies corporate, shareholders, affiliates, advisers and agents (each a **Limited Party**):

- disclaims all responsibility and liability (including, without limitation, any liability arising from fault, negligence or negligent misstatement) for any direct, indirect, consequential loss, damage, expense or cost arising from any statements, representations or warranties or in relation to the accuracy or completeness of the information, statements, opinions or matters, express or implied, contained in, arising out of or derived from, or for omissions from, this Presentation including, without limitation, any financial information, any estimates or projections and any other financial information derived therefrom;
- disclaims any obligation or undertaking to release any updates or revision to the information in this Presentation to reflect any change in expectations or assumptions or inform you of any new or more accurate information or any errors, omissions or mis-descriptions of which a Limited Party may become aware;
- does not make any representation or warranty, express or implied, as to the accuracy, reliability, currency or completeness of the information in this Presentation or the likelihood of achievement of any forward-looking statement or any event or results expressed or implied in any forward-looking statement; and
- does not represent or warrant that this Presentation is complete or that it contains all material information about AEM or which a prospective investor may require in evaluating a possible investment in AEM.

Recipients must conduct their own independent investigations and enquiries as they deem fit.

Past Performance

Past performance information given in this Presentation is given for illustrative purposes only and should not be relied upon as (and is not) an indication of AEM's views, or that of any party involved in its preparation, on AEM's future performance, condition or prospects.

Effect of Rounding

A number of figures, amounts, percentages, estimates, calculations of value and fractions in this Presentation are subject to the effect of rounding. Accordingly, the actual calculation of these figures may differ from the figures set out in this Presentation.

Market and Industry Data and Other Information

Certain market and industry data and other information used in this Presentation may have been obtained from research, surveys or studies conducted by third parties, including industry or general publications. Neither the Company nor its representatives or its advisers have independently verified, or can assure investors as to the accuracy of, any market or industry data or other information provided by third parties or industry or general publications. The Company's internally generated data is based on estimates and assumptions that the directors and management of the Company believe are reasonable.

Photographs and diagrams used in this Presentation that do not have descriptions are for illustration only and should not be interpreted to mean that any person shown in them endorses this Presentation or its contents or that the assets shown in them are owned by the Company.

The photographs contained in this Presentation are the property of or are licensed to AEM and are protected under copyright laws. No permission is granted for the reproduction of these photographs outside of their appearance in this Presentation. Diagrams used in this Presentation are illustrative only and may not be drawn to scale.

General

Statements made in this Presentation are made only as at the date of this Presentation. The information in this Presentation remains subject to change without notice. The Company may in its absolute discretion, but without being under any obligation to do so, update or supplement this Presentation. Any further information will be provided subject to the terms and conditions contained in this Important notices and disclaimer.

Acceptance

By accepting, accessing or reviewing this Presentation you acknowledge and agree to the terms set out in this section of the Presentation titled "Important notices and disclaimer". This Presentation may not be reproduced or published whole or in part, for any purpose without the prior written permission of AEM.



ADVANCED

ENGINEERED MATERIALS



1

Introduction

Company Overview

Advanced Engineered Materials is a customer-focused, innovative producer of high and ultra-high purity alumina serving rapidly growing end-markets

- We are a producer of high purity alumina (**HPA**) from our commercially sized plant in Cap-Chat, Quebec, Canada.
- Our plant has a current nameplate capacity of **2,000 tpa** and can produce up to 5N purity and Ultra-Low Alpha HPA with Uranium and Thorium with **less than 1ppb**
- We are serving the **rapidly growing global demand** in industries such as semiconductors, advanced ceramics, thermal fillers and synthetic sapphire manufacture
- Sales are expected to increase significantly to **40-60 tonnes in 2H 2026**, with accelerating sales growth through 2027
- AEM's 4N+ circuit at Cap-Chat is expected to achieve full run rate by the end of 2027, with ramp-up of the 3N5+ 1000t pa circuit in 2028, and we have plans for a "Stage 2" expansion to 6,000tpa¹ capacity from 2029
- At 3,000 tpa full production rate, the Plant will be the **3rd largest HPA production asset outside of China²**
- CM Group forecasts AEM to be in the **bottom half of the global HPA cost curve** - benefitting from renewable hydroelectricity at **<US\$0.05/kWh**
- Industry leading Scope 1, 2 and 3 carbon emissions , **~98% renewable energy** powered

Product Qualification Pipeline – as at August 30 2026



225 Projects³
In Qualification Pipeline



18 Projects³
Qualification Complete
In Commercial Relationship



38 Projects³
Advanced Qualification
Industrial Trials

Notes: (1) Subject to completion of DFS and FID/Financing. (2) CM Group based on capacities of HPA producers in 2024. (3) Project: Customer's process to qualify and, if successful, then potentially buy product for a specific application.



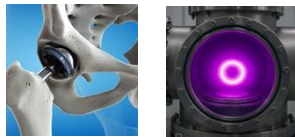
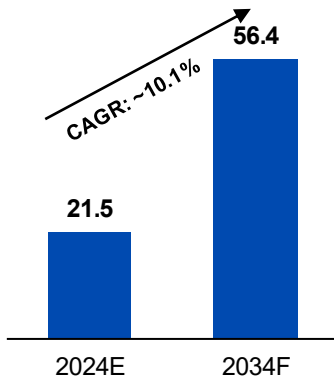
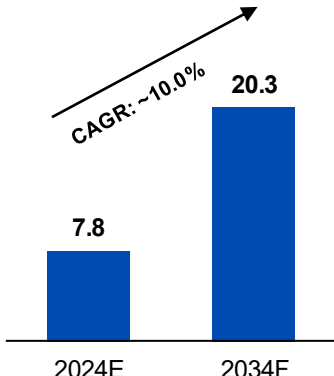
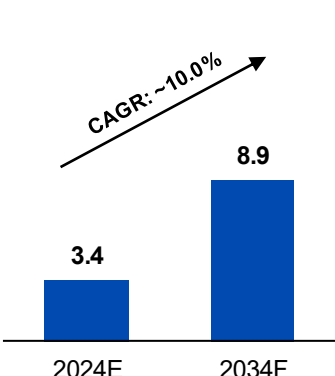
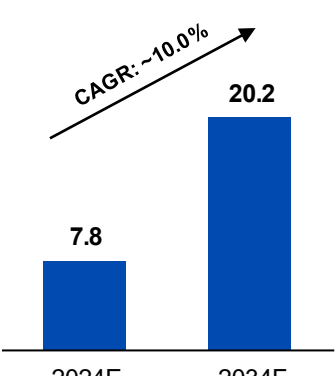
ersonal use only

2

HPA Market

High-Growth Global Demand in HPA End-Markets

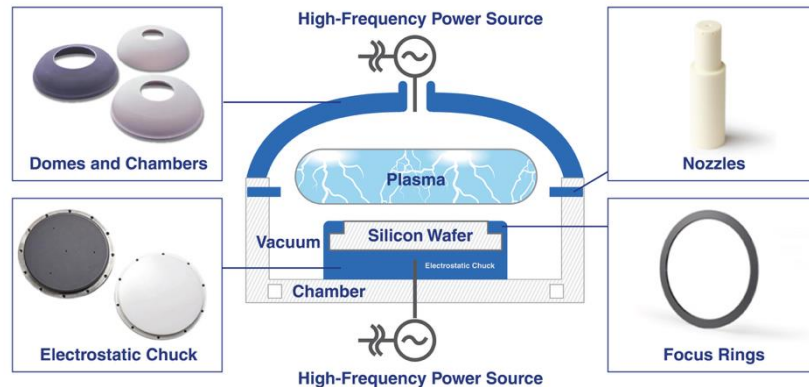
Inherent properties – high thermal conductivity, high melting point, extreme hardness & wear resistance, high mechanical strength; chemically stable, excellent electrical insulation, transparent to microwave frequencies

Applications	 Synthetic Sapphire	 Electronics and Semiconductors	 Batteries	 Other and Emerging Applications																								
Description	Used to produce high-quality sapphire crystals and sapphire substrates with specific quality and physical requirements	Used in semiconductor fabrication across multiple phases of the manufacturing process	Used to produce cathode materials (coating & doping) and anode coating	Industrial roles where chemical resistance, thermal stability and hardness are crucial																								
Examples	✓ LED substrates ✓ Optical chips ✓ Watch faces ✓ Smartphone home buttons ✓ Camera cover plates	✓ Chemical mechanical polishing ✓ Substrate manufacturing ✓ Thermal fillers and interface management ✓ Etching chambers and masks ✓ 5G components	✓ EV batteries ✓ Consumer electronics batteries ✓ Grid energy storage systems ✓ Emerging battery applications (solid-state and sodium-ion)	✓ LEDs ✓ Transparent ceramics ✓ Medical ceramics ✓ Polishes and coatings																								
Total 4N / 4N+ HPA Demand (kt)	 <table><tr><th>Year</th><th>Demand (kt)</th></tr><tr><td>2024E</td><td>21.5</td></tr><tr><td>2034F</td><td>56.4</td></tr></table>	Year	Demand (kt)	2024E	21.5	2034F	56.4	 <table><tr><th>Year</th><th>Demand (kt)</th></tr><tr><td>2024E</td><td>7.8</td></tr><tr><td>2034F</td><td>20.3</td></tr></table>	Year	Demand (kt)	2024E	7.8	2034F	20.3	 <table><tr><th>Year</th><th>Demand (kt)</th></tr><tr><td>2024E</td><td>3.4</td></tr><tr><td>2034F</td><td>8.9</td></tr></table>	Year	Demand (kt)	2024E	3.4	2034F	8.9	 <table><tr><th>Year</th><th>Demand (kt)</th></tr><tr><td>2024E</td><td>7.8</td></tr><tr><td>2034F</td><td>20.2</td></tr></table>	Year	Demand (kt)	2024E	7.8	2034F	20.2
Year	Demand (kt)																											
2024E	21.5																											
2034F	56.4																											
Year	Demand (kt)																											
2024E	7.8																											
2034F	20.3																											
Year	Demand (kt)																											
2024E	3.4																											
2034F	8.9																											
Year	Demand (kt)																											
2024E	7.8																											
2034F	20.2																											

Source: CM Group 2025.

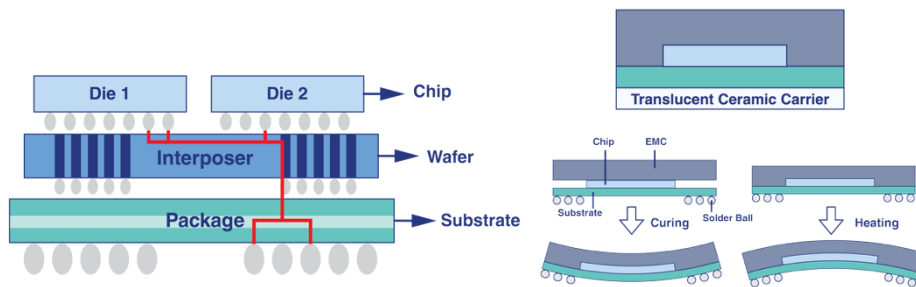
Semiconductors – Accelerating Customer Demand

Data centres and AI are driving chip demand, performance improvements, and rapid increase in use of HPA, and ultra-low alpha HPA.



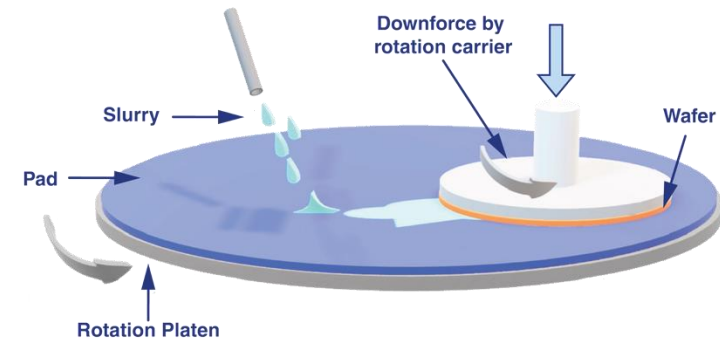
Ceramic Objects

2026 to 2029 growth 100 tpa 4N



Translucent Ceramic Carriers

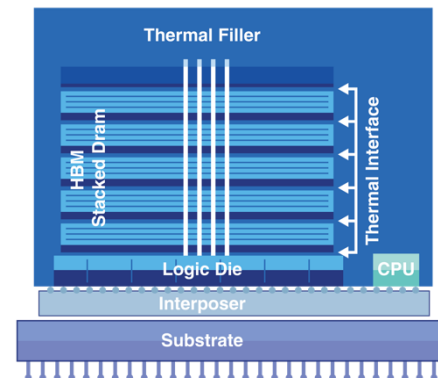
2026 to 2029 growth - 1,350 tpa HPA 4N



Chemical Mechanical Polishing (CMP)

2026 to 2029 growth 600 tpa HPA

OPERATION



Thermal Fillers & Interface Management

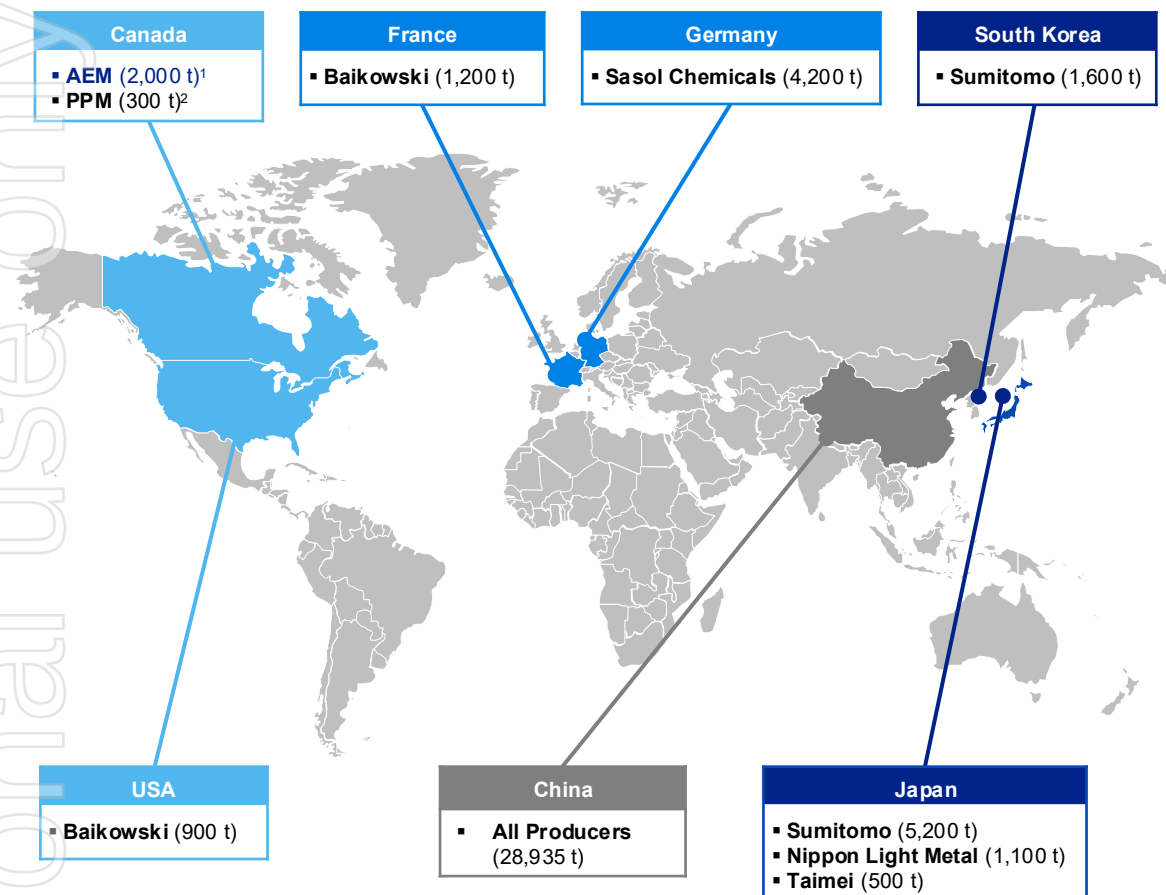
2026 to 2029 growth - 4,235 tpa¹ HPA ~ 40% ultra-low alpha

Overview of Global HPA Supply

China is the largest producer with production geared toward internal synthetic sapphire - imports approximately 2,000 tpa HPA for demanding applications

Capacities of HPA Producers in 2024

Tonnes per annum

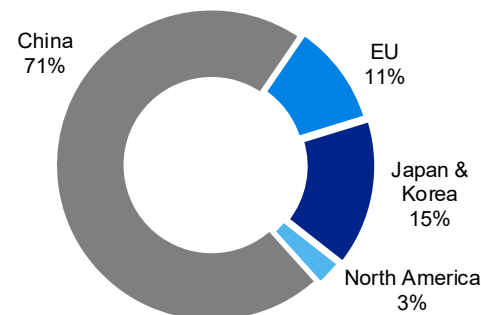


Source: CM Group report for AEM 2025 IPO.

Notes: (1) Current Advanced Engineered Materials production capacity (2) PPM – Polar Performance Materials. (3) As at 2024, prior to AEM achieving 2,000 tpa production capacity. (4) Sumitomo combines South Korea and Japan assets.

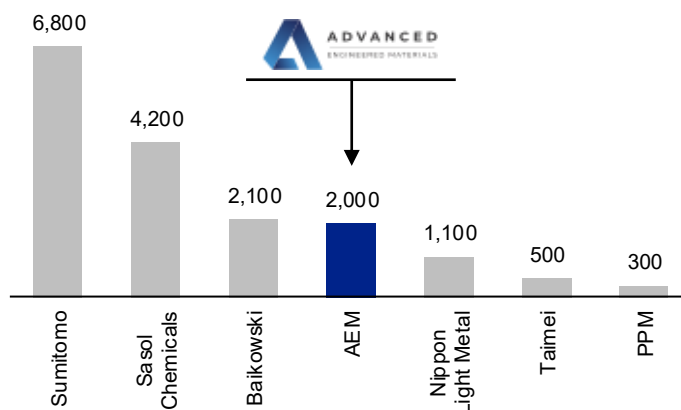
Breakdown of Global Supply³

4N+ HPA Supply in 2024, % of total market



Ex China Global Supply Breakdown^{1,2,4}

Capacities of ex China HPA Producers in 2024, tpa

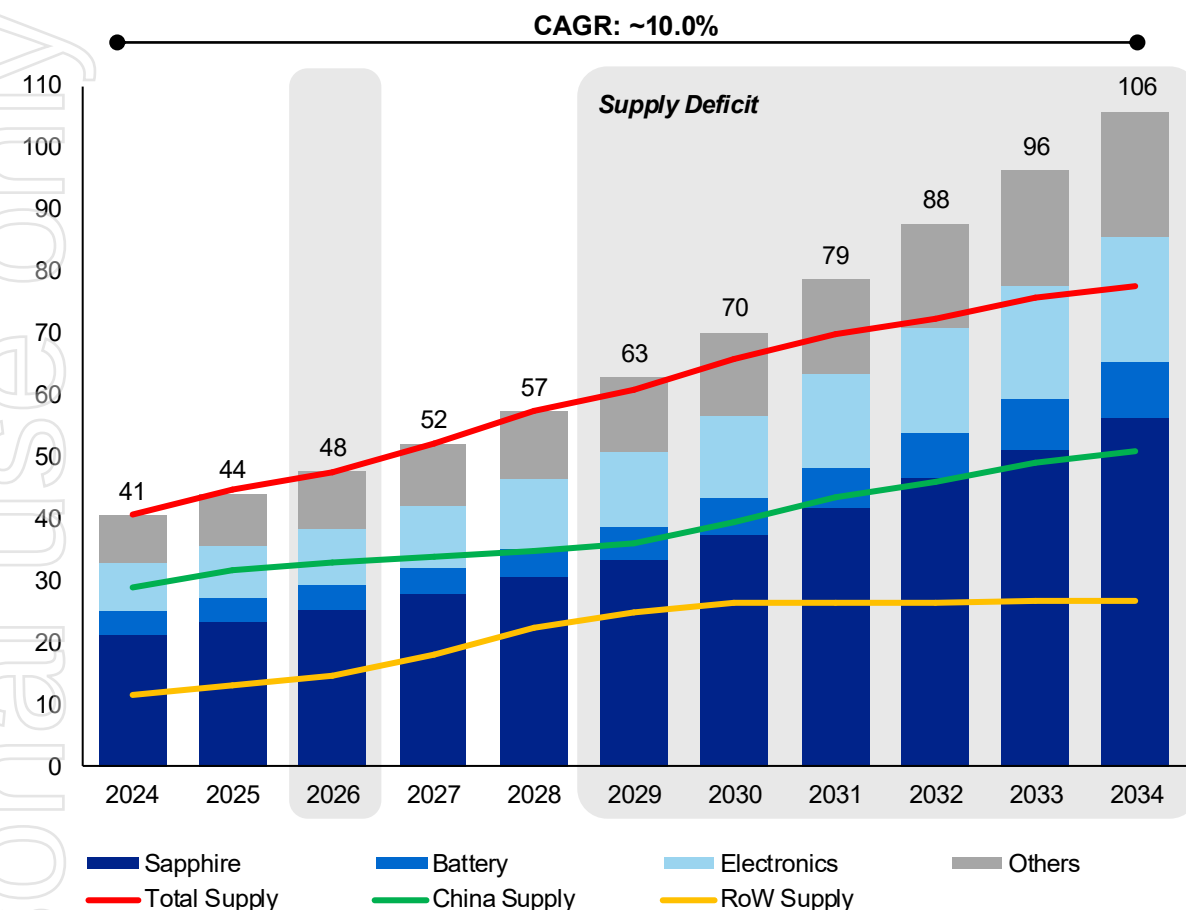


HPA Demand and Supply Dynamics

Strong demand growth combined with sluggish supply-side response to lead to a sustained supply deficit from 2029

Global HPA Supply and Demand Outlook

Kilotonnes per annum, 4N/4N+ HPA



Source: CM Group report for AEM 2025 IPO.

Note: (1) As at 2024, prior to AEM's Cap-Chat Plant achieving 2,000 tpa production capacity.

Overview

- Strong global demand of 13.6% CAGR from 2013 to 2024, driven by strong demand in new industrial applications, in particular sapphire/LED manufacturing
- Global demand growth forecast to continue to grow strongly at double-digit CAGR (~10.0%) over the 10-year period from 2025 to 2034 driven by continued strong demand from the key sapphire and LED market with notable growth areas from the semiconductor sector
- A sluggish supply response means a supply deficit is forecast in 2026, and again persistently from 2029
- HPA made in China stays in China. China is expected to continue to be excluded from rest of world markets, due to quality, intellectual property, supply chain risk, and market opaqueness concerns
- Customers keen to encourage new supply due to concerns of future availability for new projects
- Production in 2024 of 4N/4N+ HPA outside China is considered closely approximated to actual capacity
 - Total supply ex. China is estimated to be 15.3 ktpa¹ mainly derived from producers in Japan, France and Germany
 - Sumitomo is currently the market leader (accounting for 6.8 ktpa (~44%) of ex. China supply)

HPA Pricing Dynamics

Tight market conditions and forecast undersupply expected to drive meaningful increase in HPA pricing

HPA Pricing Dynamics

Speciality Product

- Creates a strong interdependence between customer and supplier

Heightened Customer Sensitivity

- To product quality and performance, resulting in highly customised end-products

Lengthened Qualification Process

- Can take one to three years, however, once qualified, it creates high barrier to entry for competitors

Bilateral Negotiations

- Prices are negotiated almost exclusively on a bilateral basis

Sticky Relationships

- Strong interdependent customer-supplier relationships drives pricing more than production costs

AEM Core Product

4N/4N+ HPA Pricing Forecast (CM Group 2025)

HPA Product Pricing (US\$/kg)

Form	Region	2025	2026	Long-term
Rest of World Gamma HPA	Japan	18.0	22.0	30.0
	EU	18.0	22.0	30.0
Rest of World HPA Spec 1	All Regions ¹	21.0	30.0	38.0
Rest of World Milled HPA (4N5+)	Japan	25.0	32.5	40.0
	EU	25.0	32.5	40.0
Rest of World HPA Pucks	Japan	29.0	41.0	46.0
	EU	36.0	41.0	46.0
Rest of World Nano HPA	Japan	45.0	50.0	50.0
	South Korea	50.0	50.0	50.0

Commentary

- Customers behaviour indicates tightening market conditions and discussions indicate concern about securing supply for new projects
- HPA markets currently attract high prices and are likely to continue to do so through the medium term
- The emergence of a new market sector for marginally lower HPA grades in the quality range 3N5 to 3N8 HPA attracts prices which are typically discounted by 40% to 50% relative to 4N/4N+ prices, depending on the specific quality requirement and application
- Strong demand growth outlook for several key HPA market sectors, a widening supply deficit and several significant barriers to entry, particularly around access to commercially proven production technology, provide pricing tailwinds

Source: CM Group report for AEM 2025 IPO.

Note: (1) All regions comprises Japan, EU, South Korea and USA.

Global Industry Production Cost Curve

CM Group estimates AEM to have lower production costs than rest of world producers while delivering the same or higher quality HPA product

Historically

Dominated by two distinct groupings:

- **China:** low-cost producers but cannot match quality of international peers
- **Rest of World (ROW):** producers in Japan, South Korea and the EU have significantly higher cost, on account of higher energy and labour costs

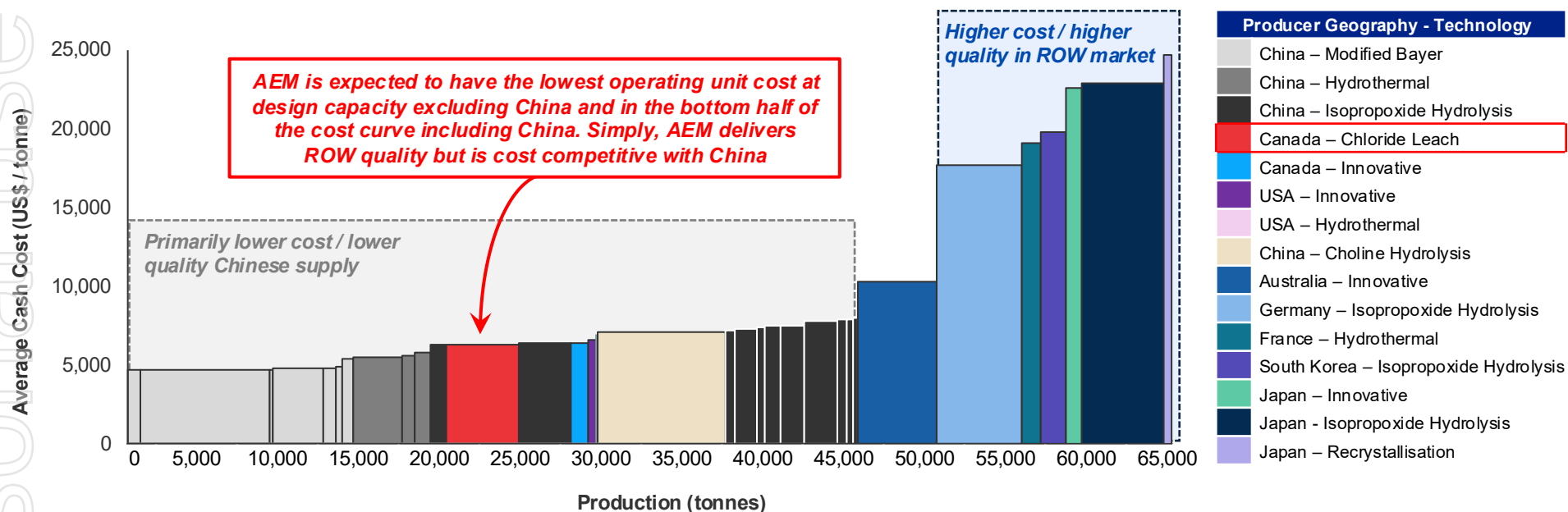
Today

- New ROW producers (AEM) are entering the HPA 4N/4N+ market
- Utilising innovative low-cost technologies (such as chloride leach) have demonstrated an ability to deliver an equivalent ROW quality product at a materially lower cost base

Outlook

- A clear new 'step' will emerge in the global cost curve, between new, low-cost production and legacy, higher cost producers
- New producers entering the market at low cost (<US\$10,000/t) can take advantage of prices influenced by legacy producers

Forecast Global HPA Commercial Scale Production Cost Curve by Technology 2030



Source: CM Group report for AEM 2025 IPO.



3

Company Operations and Expansion

Strategically Located Operations

The Cap-Chat Plant is in the Canadian Province of Quebec, benefiting from a stable, advanced economy, locally sourced feedstock, and low-cost renewable energy

Map of Canadian Operations



Operational Advantages

- ✓ Politically stable and business friendly jurisdiction
- ✓ Educated and skilled workforce at moderate cost
- ✓ Access to low-cost renewable energy. Hydro Quebec supplies the plant with electricity at less than \$US0.05/kWh - the Plant is wholly electrically powered
- ✓ Multiple possible sources of aluminous feedstock for the Company's manufacturing process from Quebec's aluminium industry including from its preferred supplier, Rio Tinto Alcan
- ✓ Funding available to support capital investment related to the exploitation of strategic minerals and the economic development of Quebec more generally^{1,2}

Notes: (1) AEM has secured project finance facilities from Investment Quebec of C\$7 million and Economic Development Canada of C\$2.0 million. (2) Federal and provincial government support includes a 25% capex rebate and tax credits for R&D in new materials (in FY24).

The Montreal Technology Development Centre

Creating processes to produce next-generation materials for critical supply chains

Continued focus on innovation in production process...

AEM's Montreal Technology Development Centre comprises:



State-of-the-art
Laboratory



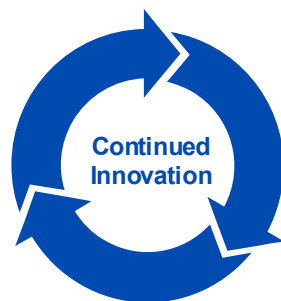
Advanced Analytical
Equipment



Leading Research
Scientists

Innovation process underpinned by customer collaboration:

Support of
operations during
product qualification



Working with
research institutions
on process and
product
development

Development of
optimised and new
products in collaboration
with customers

...driving further strategic and financial benefit to AEM

1

Competitive Positioning

- ✓ Enhances intellectual property portfolio with proprietary production technologies
- ✓ Develops production processes, such as:
 - ✓ Ultra-low alpha HPA
 - ✓ nano-particle HPA, including REE doped
 - ✓ stable HPA slurries,
 - ✓ novel approaches to making HPA monoliths for synthetic sapphire

2

Margin Expansion

- ✓ Optimisation of product portfolio to focus on highest margin products
- ✓ Development of lower-energy, lower-cost, and environmentally sustainable HPA production processes, unlocking opportunity for further operational efficiencies and margin expansion

3

Customer Responsiveness

- ✓ Supports operations and sales teams with product qualification
- ✓ Accelerates product optimisation in response to customer engagement

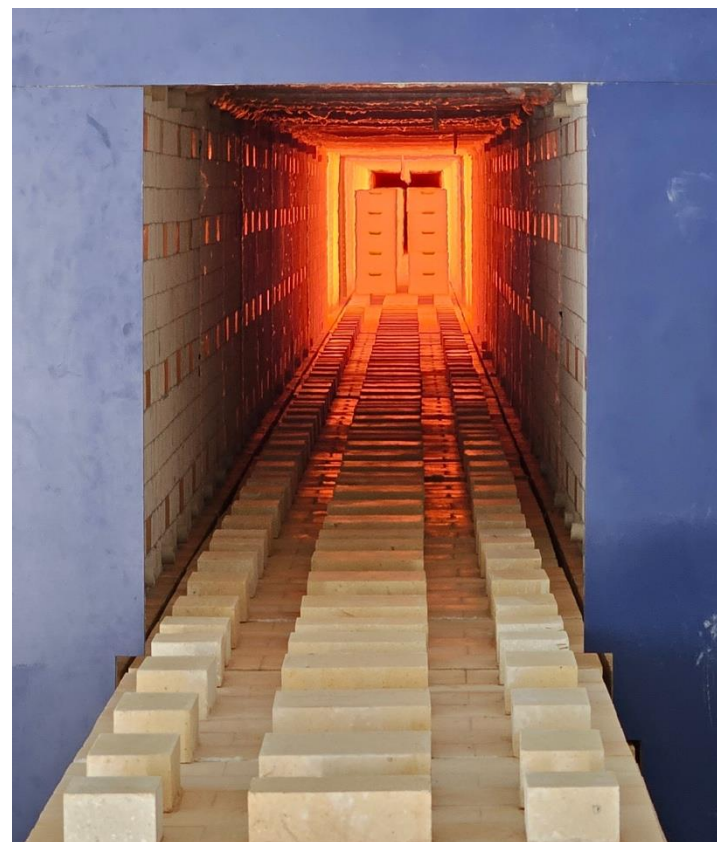
Stage 1 Project

AEM has successfully delivered a commercial scale plant with an HPA production capacity of 2,000 tpa, and will add an additional 1,000 tpa capacity in 2026

Pathway

 Complete	✓ Stage 1 Expansion delivered 2023-2025: commercial-scale capacity of 2,000 tpa 4N+ HPA, commissioned and independently validated ✓ Plant modifications completed early 2026 to produce ultra-low alpha HPA primarily for the semiconductor sector. ✓ Extended campaign runs of the fluidised bed furnace and tunnel kiln in 1H 2026; the Plant is primed to supply increased orders
 Current Work Programme	▪ Expansion of Cap-Chat's capacity by 1,000 tpa via a dedicated 3N5+ HPA circuit in 2026 ▪ Additional product tailoring equipment in Final Processing for the evolving production mix ▪ Ramp the 4N+ circuit to full run rate by end 2027 and the 3N5+ circuit by mid-2028; higher-purity HPA qualification prioritisation driven by market dynamics and greater potential margins

Tunnel Kiln In Operation



Source: WSP Independent Engineer's Report: Cap-Chat Plant and Stage 1 Expansion (September 2025).

Stage 2 Expansion Project

AEM has plans to double capacity to 6,000 tpa through a Stage 2 Expansion Project, which would be located adjacent to the existing Stage 1 Plant

Expansion Project Overview

Positive Stage 2 PFS¹ Completed

- Stage 2 expansion PFS completed in June 2025. DFS due for completion in Q3 2026 with revised scope including integration with current plant and product mix.

Doubling Production Capacity

- AEM's total production capacity at completion will double from 3,000 tpa to 6,000 tpa. Staged expansion strategy benefits from Stage 1 operations ramp up ahead of Stage 2 FID²

Reduced Execution Risk

- Land, raw materials and infrastructure are available to develop Stage 2 adjacent to the existing Stage 1 plant

Expansion Forecast to Match Demand

- Aiming for production in 2029 to match anticipated market demand and forecast undersupply².

Robust Economics

- PFS indicates steady state EBITDA ranges between ~US\$47.1 million to ~US\$85.2 million per annum at a margin of ~74.0% to ~83.7% at steady state

Government Support & Debt Funding Optionality

- Robust economics suitable for material debt funding component and Quebec government capex rebates potentially available

Stage 2 PFS Metrics at Steady State Production

Financial Metrics Based on Pre-Feasibility Study

		1	2
	Units	CM Group Current Pricing	CM Group Long-Term Pricing
Stage 2 Expansion Project Capex			
Initial Capex ¹	US\$m	215.0	215.0
Steady State Metrics (From 2032)			
Production Volume	tonnes	~3,000	~3,000
Weighted Product Price	US\$/kg	21.3	34.0
Revenue³	US\$m	63.6	102.0
Variable Costs ⁴	US\$m	10.1	10.1
Fixed Costs ⁴	US\$m	6.5	6.5
Total Opex	US\$m	16.6	16.6
Unit Cash Cost	US\$/kg	5.5	5.5
EBITDA⁵	US\$m	47.1	85.2
Margin	%	74.0%	83.7%

Source: WSP Independent Technical Report - Pre-Feasibility Engineering Cap-Chat Plant Stage 2 Expansion (September 2025), CM Group, BDO, Advanced Engineered Materials.

Notes: (1) Capex estimate of ~C\$298.8 million as at Q4 2024 prices. Capex estimate does not take account of the effects of cost escalation or the corporate costs that AEM would incur in connection with the Project. Capex estimate for Stage 2 converted to US\$ at an exchange rate of ~0.72 US\$ / 1.00 CA\$. Does not include sustaining capex required for ongoing plant operation. (2) Subject to completion of DFS and FID/Financing. (3) Production Volume x Weighted Product Price (4) Opex estimate for Stage 2 across forecast period based on 91% run rate utilisation for plant production converted to US\$ at an exchange rate of ~0.72 US\$ / 1.00 CA\$. (5) Any discrepancies between totals and sums of components are due to rounding.



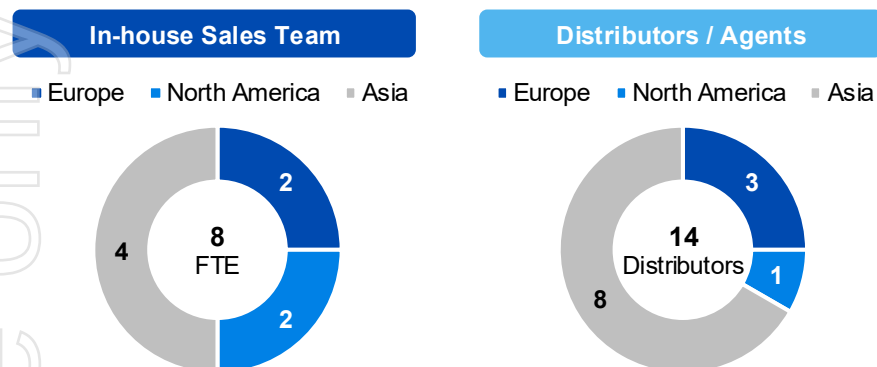
4

Sales and Marketing

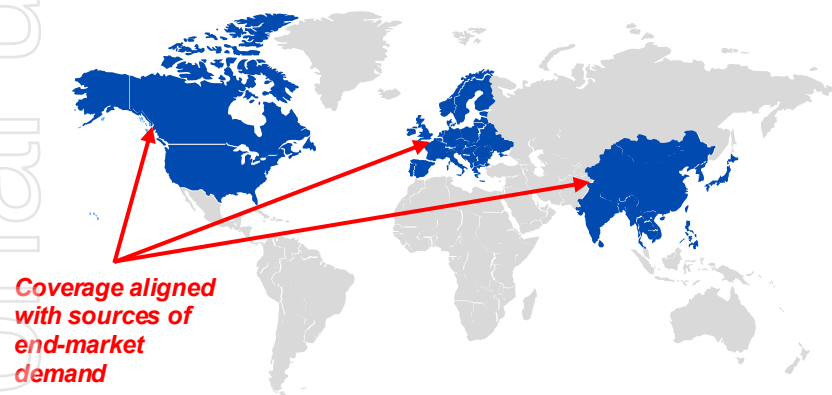
Global Sales Infrastructure

Dedicated in-house sales team with deep industry and sales experience complemented by a global network of distributors and agents

Global sales infrastructure in place...



■ In-house and distributor end-market coverage



...providing robust coverage of end-markets

	In-house Sales Team	Distributors / Agents
Overview	- Led by Frankfurt-based Dr Daniele Fregonese - Team possesses deep industry and sales experience - Strong relationships and well connected with industry participants	- Independent reselling to end customers - Coverage across USA, Europe and Asia
Advantages	✓ Deep product knowledge to drive conversion ✓ Direct customer feedback to iterate sales process ✓ Stronger margin profile ✓ Nurture strategic accounts for growth	✓ Broad reach across verticals and geographies ✓ Leverage existing networks ✓ Rapidly expand market presence
Target Customers	Large international and market leading accounts	Existing and smaller end-customers
Sales Channels / Example Distributors	- Trade shows - Database direct communications - LinkedIn - Sapphire Green Alliance	

Customer Qualification Pipeline

The customer qualification pipeline reached 225 projects at the end of August, up ~50% from the beginning of the year, with commercial relationship and industrial trial stage projects also up 60%

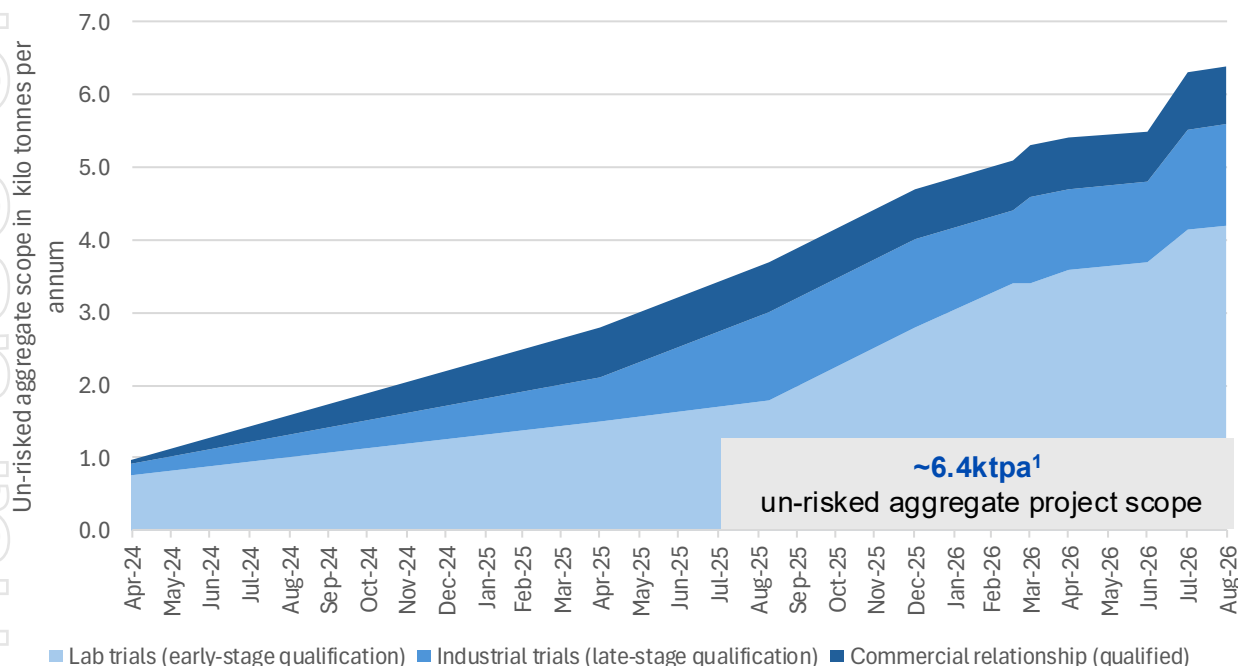
Focus on commercialisation has forged a robust customer qualification pipeline...

...with customers seeking AEM's...

169 Projects in Laboratory Trials
+2 vs July

18 Projects Qualified and in Commercial Relationship
+ 1 vs July

38 Projects in Industrial Trials +6 vs July



High purity product



Flexible and collaborative product development



Sustainable product process to meet evolving ESG requirements



Canadian plant location ensuring stability and security of supply



Delinking from China



Stable cost base, independent of oil prices

Notes: (1) Aggregated scope of all projects in, and after, qualification on an un-risked basis as advised and updated by customers as the project proceeds, and recorded in AEM's CRM system. The qualification process results in a proportion of project qualifications being successful with others, so far limited to the early laboratory trials stage, being unsuccessful. If qualified, the project may not necessarily convert in the future into orders of the same scope as, for example, the customers' project may not proceed or be delayed or may change in scale. Currently annual un-risked volume is composed of ~4.9 kt/a of 4N+ and ~1.5 kt/a of 3N5 HPA.

Trends We Are Seeing

Three emerging tailwinds are accelerating AEM's customer engagement success

1. Expected global HPA supply crunch now becoming a reality

Customers are showing concern about their ability to secure the HPA they need. A leading global supplier is rationalising its customer base by dropping low-priority customers and no material additional capacity is expected to come on stream worldwide until 2028.

2. Semiconductor industry replacing customary input materials with 4N+ HPA

Three shifts are underway in semiconductors for leading-edge applications such as AI and robotics:

- Wafer fab tools (etch chambers, capillaries, nozzles and electrostatic chucks) moving from 2N8 alumina to 4N+ HPA.
- Thermal management materials moving from spherical silica to spherical HPA.
- Chip packaging moving to translucent ceramic carriers made from 4N+ HPA to prevent warpage during curing.

3. Geopolitics redrawing HPA demand patterns

China's drive for a semiconductor industry independent of US technology is creating demand for 4N+ HPA its domestic suppliers cannot service. Western efforts to delink from Chinese supply chains, particularly for defence-related sapphire are driving new demand for Western-manufactured HPA.

AEM is heavily engaged with customers impacted by all three tailwinds. They underpin the accelerating growth of AEM's customer qualification pipeline and are driving:

• Stronger engagement with Chinese customers

Projects with Chinese customers have grown markedly through 2026

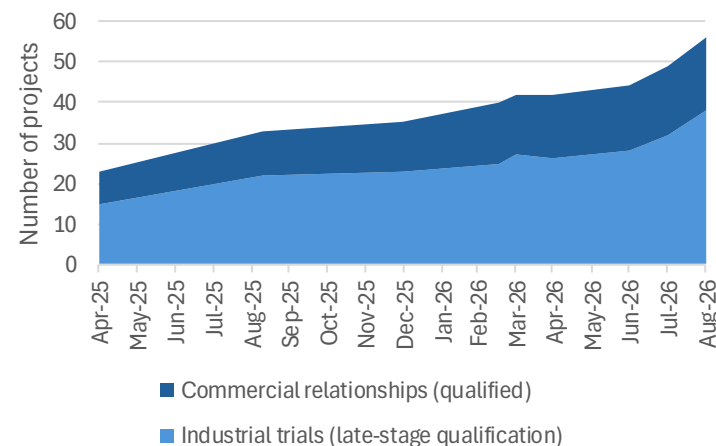
• A move towards higher purity

Product mix shifting towards higher-purity 4N+ grades - the reason the 4N+ circuit is being prioritised.

• Tightening pricing

Supply and demand dynamics, and product quality trends leading to a higher pricing environment

Projects either qualified or in late-stage qualification



Managing Director and CEO, Mick Adams

"Customers are undoubtedly concerned about a shortage of HPA supply and are turning to us for solutions. We are making particularly good progress in supplying products for advanced ceramics applications in the semiconductor sector and customers are showing strong interest in our recently launched ultra-low alpha HPA for thermal management applications."



HP50-A33-S01
REPOLIMERIZADOR DE LA TIG

Personal use only

5

Management

Management Team

AEM's management team has the requisite skills and experience to oversee plant development and long-term operational success

Key Management



Richard Seville
Executive Chairman



Michael 'Mick' Adams
Managing Director / CEO



Alexis Clark
Chief Financial Officer

- | | | |
|---|--|---|
| <ul style="list-style-type: none">▪ Executive Chairman of AEM since Jan 2022▪ Highly successful track record in the junior to mid-cap resources space▪ Over 30 years as a Director of various ASX, TSX or AIM listed companies (including Allkem Limited, Oz Minerals and Agrimin Ltd)▪ Took Allkem from IPO in 2007 to a significant producer of lithium chemicals and part of the battery supply chain | <ul style="list-style-type: none">▪ Joined AEM Board in Jan 2021, became a full-time employee and was appointed Managing Director and CEO in May 2021▪ Now based in Cap-Chat▪ Professionally qualified chartered engineer with over 40 years of experience▪ Experience in developing, financing and building major infrastructure projects at Trafalgar House, Kvaerner and Gammon Construction | <ul style="list-style-type: none">▪ Over 20 years international finance experience▪ Previously worked at Merrill Lynch and Patersons (now Canaccord) in equity research covering the Australian energy sector▪ Background in originating and executing structured finance transactions for infrastructure, resources and energy companies |
|---|--|---|

Supported by a deeply-experienced senior management team...



Stéphane Blanchette
Chief Human Resources Officer



Sylvain Seyer
SVP – Production and Asset Management



Dr Daniele Fregonese
SVP – Sales and Marketing



Dr Ebrahim Alizadeh
SVP – Technical Services and R&D



Dr Jean-Nicolas Beaudry
SVP – Corporate Development & Strategy



6

Outlook and Closing Remarks

Outlook

A significant step-up in sales is expected in the second half, accelerating through 2027

Sales are expected to increase significantly in 2H 2026 to approximately 40 to 60 tonnes, accelerating further in 2027 as existing qualified customers complete tooling up, and customers currently qualifying AEM's HPA complete their qualification processes and move into commercial production.

What to expect in 2H

- ✓ **Growth of sales**
- ✓ **Increase in customers** in commercial relationship and industrial trials stage
- ✓ **Additional distributors - negotiations** being finalised with **three** distributors at present - two for China and one for Japan
- ✓ **Continued industrial trials of ultra-low alpha capability and potential the start of commercial orders**
- ✓ **Additional** milling capacity and associated equipment, 3N5+ circuit
- ✓ **Finalisation of Stage 2** Feasibility Study

Near-term milestones

3Q 2026

Stage 2 Definitive Feasibility Study completion

3Q 2026

Three new distributor arrangements to be finalised

End 2026

3N5+ circuit into production - nameplate capacity to 3,000 tpa

End 2027

4N+ circuit at design production run rate

Mid-2028

3N5+ circuit at design production run rate

From 2029

Stage 2 - total installed production capacity at 6,000 tpa

The statements on this slide are forward-looking. Refer to the "Material Factors and Assumptions", "Material Risk Factors" and "Financial Outlook / FOFI" sections of the Company's ASX announcement of 24 August 2026, and to the Important Notices and Disclaimer at the front of this Presentation. Actual results may differ materially from the expectations expressed. Stage 2 is subject to completion of the DFS and a final investment decision including financing.

Investment Highlights

1

Emerging Leader in HPA

- ✓ Innovative HPA producer capable of purities up to 5N and ultra-low alpha HPA at less than 1 ppb uranium and thorium
- ✓ Commercial-scale capacity of 2,000 tpa at Cap-Chat, with plant modifications completed in 1H 2026 to enable commercial-scale ultra-low alpha production

2

Innovative and Sustainable Production

- ✓ Patented process powered 98% by renewables at <US\$0.05/kWh and enabled by locally sourced feedstock
- ✓ Forecast in the bottom half of the global industry cost curve including China, at approximately 2.8 t CO₂e per tonne - around 77% below traditional alkoxide methods

3

Strong Industry Tailwinds

- ✓ Semiconductor device market forecast at approximately US\$1.6 trillion in 2026, with device revenue growing around five times faster than wafer volume¹
- ✓ No material additional HPA capacity expected worldwide until 2028

4

Commercial Momentum, Not Just Capacity

- ✓ Sales of 12.5 t for A\$460k in 1H 2026, up 85% on PCP, from orders of 17.6 t
- ✓ Realised pricing US\$25.4/kg, order book US\$27.0/kg. Second-half sales expected at approximately 40 to 60 tonnes²

5

Robust Qualification Pipeline

- ✓ 225 projects in the customer qualification pipeline up approximately 50% since January
- ✓ 56 customers in industrial trials or commercial relationship, up 60% since January

6

Funded, Building and Proven Leadership

- ✓ A\$23.7m cash and A\$175.7m net assets at 30 June 2026, with A\$120.5m of plant substantially built and commissioned
- ✓ Stage 1 to 3,000 tpa in 2026; Stage 2 DFS due 3Q 2026; 6,000 tpa from 2029. Board led by Richard Seville

Notes: (1) Yole Group, "The semiconductor industry enters the trillion-dollar era", press release, 8 July 2026. Third-party forecasts are not AEM forecasts & are subject to revision by their publishers. (2) Forward-looking - refer to the Financial Outlook / FOFI section of the Company's ASX announcement of 24 August 2026. Customer qualification pipeline is presented on an un-risked basis. It is not an order book & is not contracted revenue; there is no assurance that projects will convert to sales.



Investor and Media Enquiries

Emmanuel Duvnjak - Head of Communications and Investor Relations

+61 412 734 200 · eduvnjak@aemhpa.com · aemhpa.com

[LinkedIn](#) · [YouTube](#)