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Investor Presentation

Techknow Invest Roadshow – 27 and 29 July 2026

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1 Introduction

Company Overview

Advanced Engineered Materials is a customer focussed, innovative producer of high and ultra-high purity alumina products serving attractive end-markets

Overview

- ✓ 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
- ✓ We are on track to deliver **3,000 tpa** nameplate production capacity in 2026 with the addition of a dedicated 3N5 circuit completing Stage 1
- ✓ We have plans for a "Stage 2" expansion to 6,000tpa[1] capacity from 2029
- ✓ At 3,000 tpa full production rate, the Plant will be the **3rd largest HPA production asset outside of China**[2]
- ✓ CM Group forecasts AEM to be in the **bottom half of the global HPA cost curve** – benefitting from renewable hydroelectricity at **<US5c/kWh**
- ✓ Industry leading Scope 1, 2 and 3 carbon emissions HPA supplier contributing less than 2.8t CO2e per tonne of production (~77% lower than incumbent producers)[3]

Customer Pipeline

~US$ 160m[4]
Potential Annual Value

~5500 tpa
tonnes per annum

~US$ 29/kg
Average Price

>210 Projects[5]
In Customer Pipeline

16 Projects[5]
Commercially Secured

~98%
Renewables Powered

Notes: (1) Subject to completion of DFS and FID/Financing. (2) CM Group based on capacities of HPA producers in 2024. (3) Optel (independent audit of AEM production operations and supply chain (completed in September 2023, updated July 2025). (4) Un-risked basis comprising ~4,200t of 4N+ and ~1,300t of 3N5+ HPA. (5) Project: Customer's process to qualify and, if successful, then buy product for a specific application.

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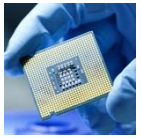
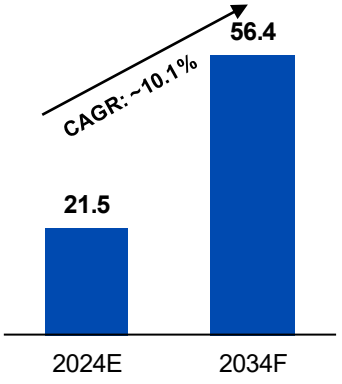
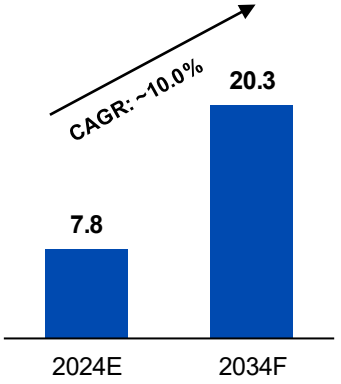
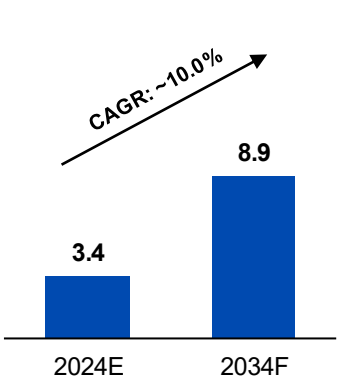
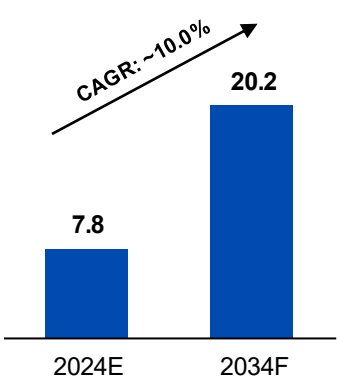


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2
HPA Market

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

	Synthetic Sapphire	Electronics and Semiconductors	Batteries	Other and Emerging Applications
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)				

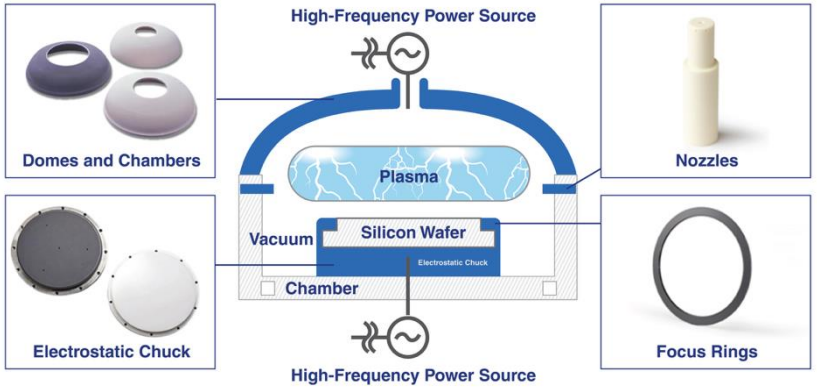
Source: CM Group 2025.

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Semiconductors – Accelerating Customer Demand

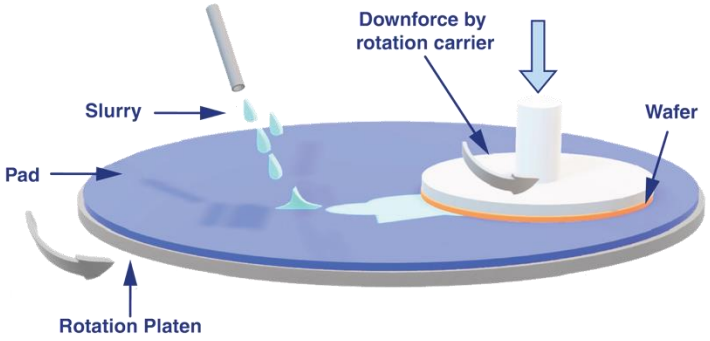
Data centres and AI are driving chip demand, performance improvements, and rapid increase in use of HPA, and ultra-low alpha HPA.

FABRICATION



Ceramic Objects

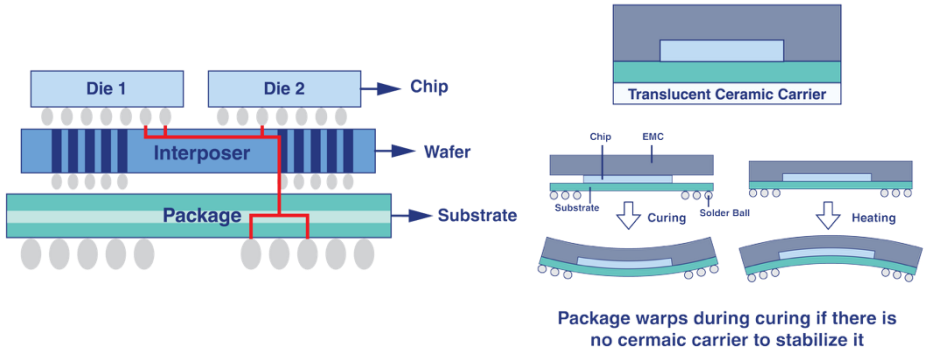
2026 to 2029 growth 100 tpa 4N



Chemical Mechanical Polishing (CMP)

2026 to 2029 growth 600 tpa HPA

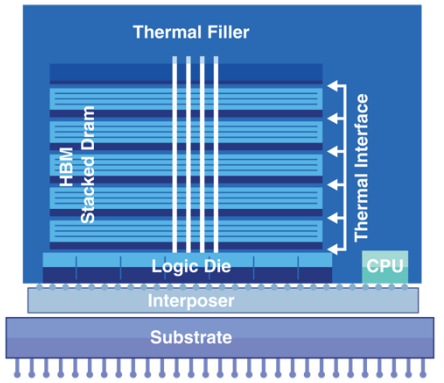
ASSEMBLY



Translucent Ceramic Carriers

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

OPERATION



Thermal Fillers & Interface Management

2026 to 2029 growth - 4,235 tpa[1] HPA ~ 40% ultra-low alpha

Source: Advanced Engineered Materials, TSMC, (1) Alpha HPA

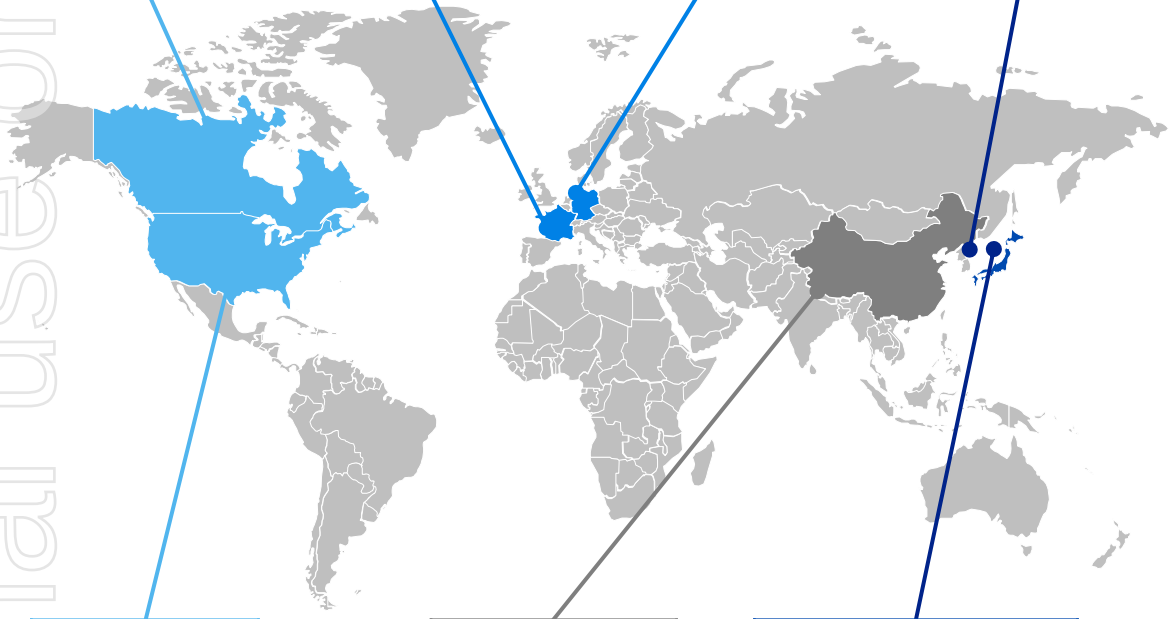
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Overview of Global HPA Supply

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

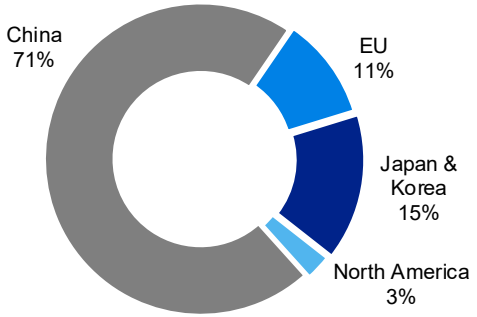
Capacities of HPA Producers in 2024

Tonnes per annum



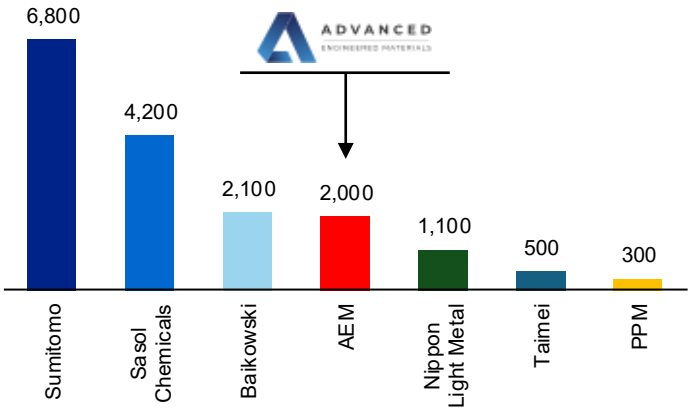
Breakdown of Global Supply[3]

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



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.

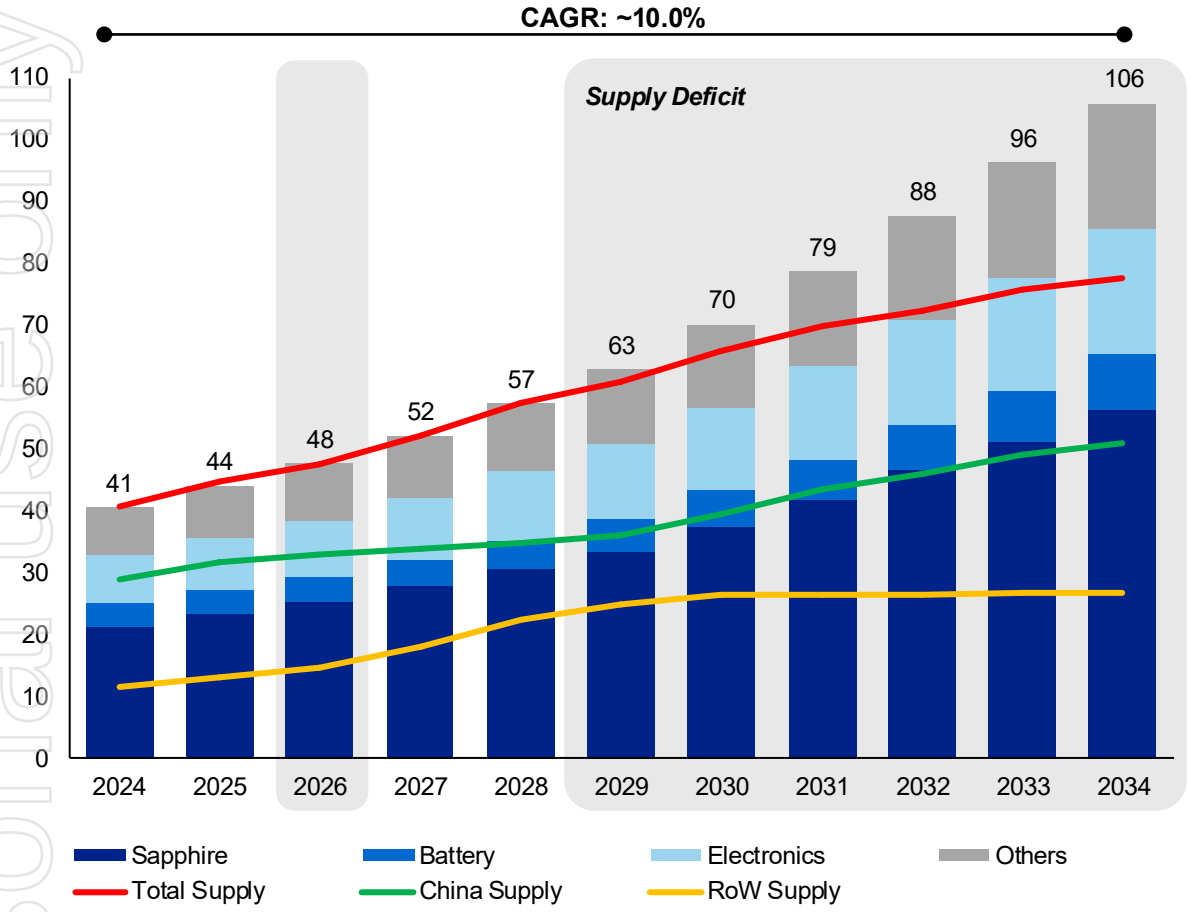
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HPA Demand and Supply Dynamics

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 ktpa[1] 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

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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

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

HPA Product Pricing (US$/kg)

AEM Core Product

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 tight market conditions currently 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.

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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

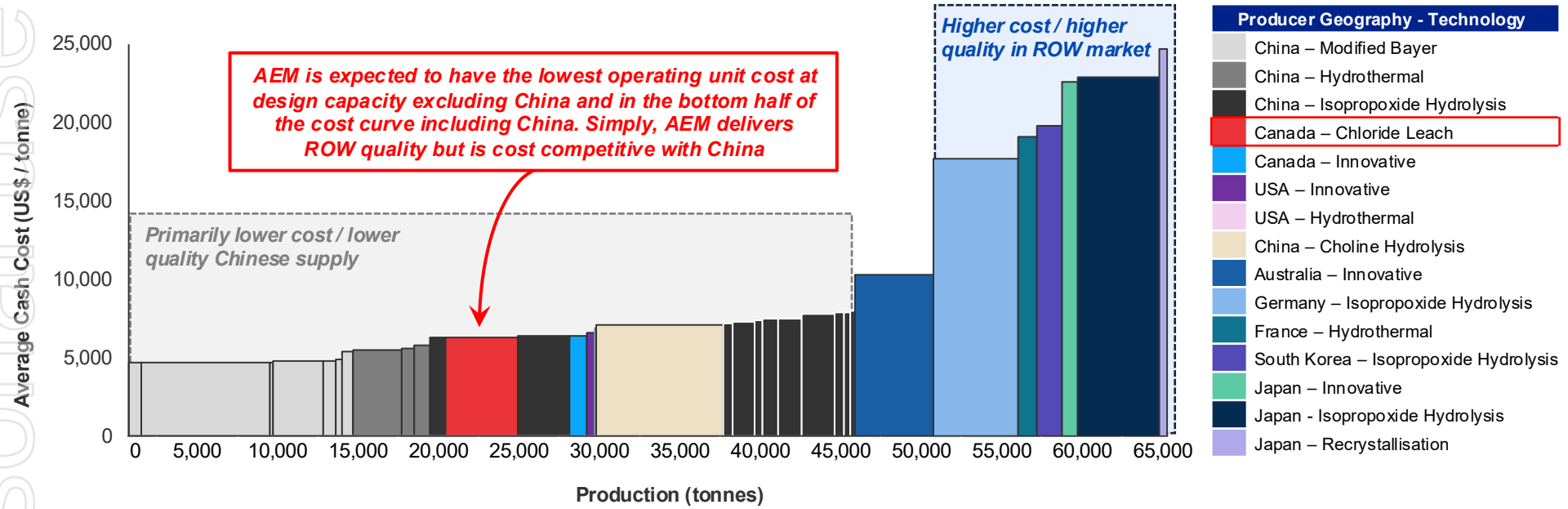
Today

- New ROW producers (AEM) are entering the HPA 4N/4N+ market
- Utilising innovative low-cost technologies (such as chlorine 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.

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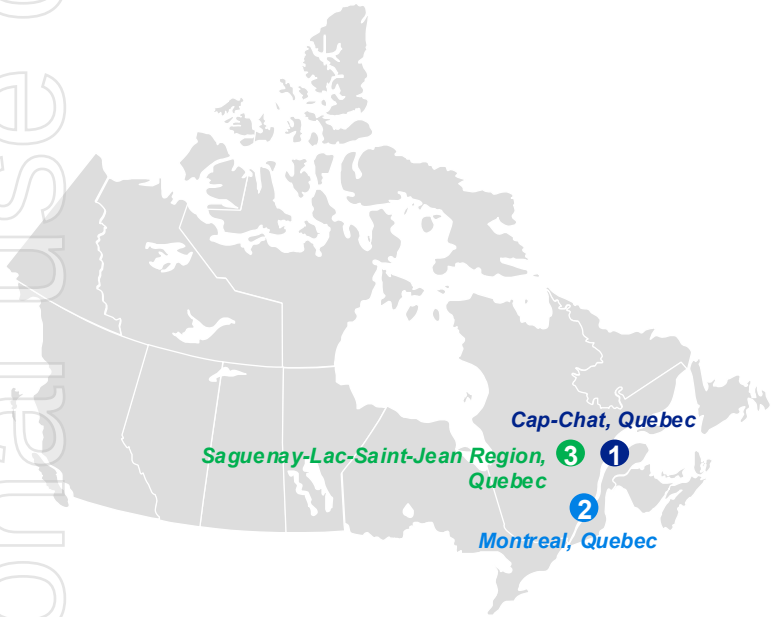
3
Company Operations and Expansion

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





1



Cap-Chat Plant

2



Technology Development Centre

3



Rio Tinto 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 US5c/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).

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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



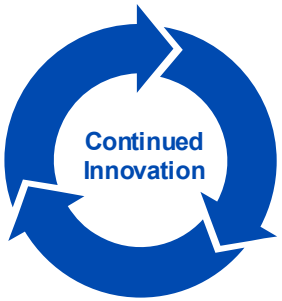
Advanced Analytical Equipment



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

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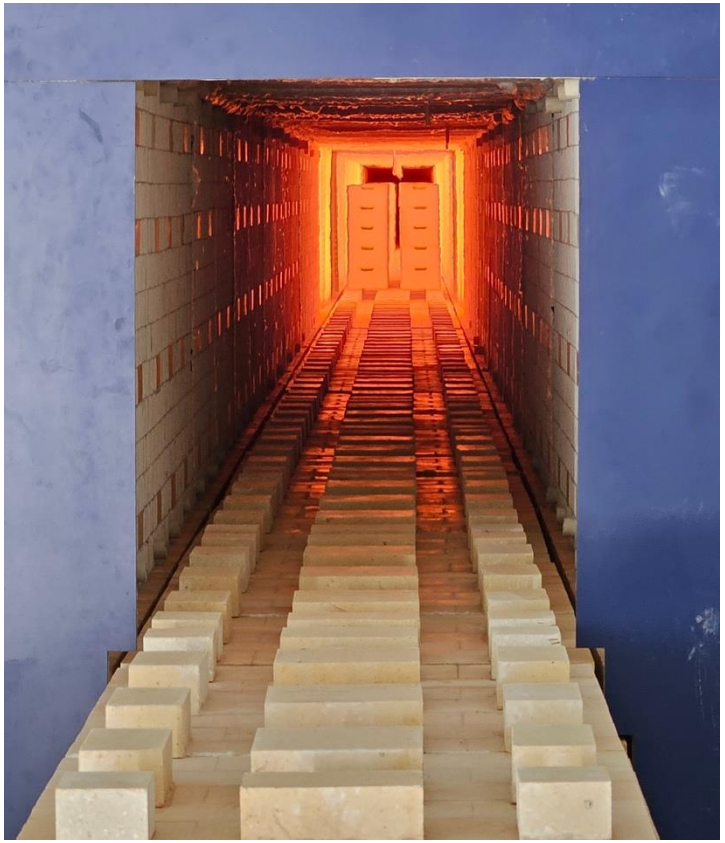
Stage 1 Project

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	✓ AEM successfully delivered the Stage 1 Expansion program 2023-2025 delivering commercial scale production 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.
	✓ AEM is now well placed to progressively ramp-up production to meet growing global demand
→ Current Work Programme	▪ Expansion of the Cap-Chat Plant's capacity by 1,000 tpa via the installation of a dedicated 3N5+ HPA circuit with production in 2026.
	▪ Installation of additional product tailoring equipment in the Plant's Final Processing section to cater to the evolving production mix
	▪ Ramp up the Plant to full production to meet expected sales demand growth through 2026/2027

Tunnel Kiln In Operation



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

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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 PFS[1] 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 undersupply[2].

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

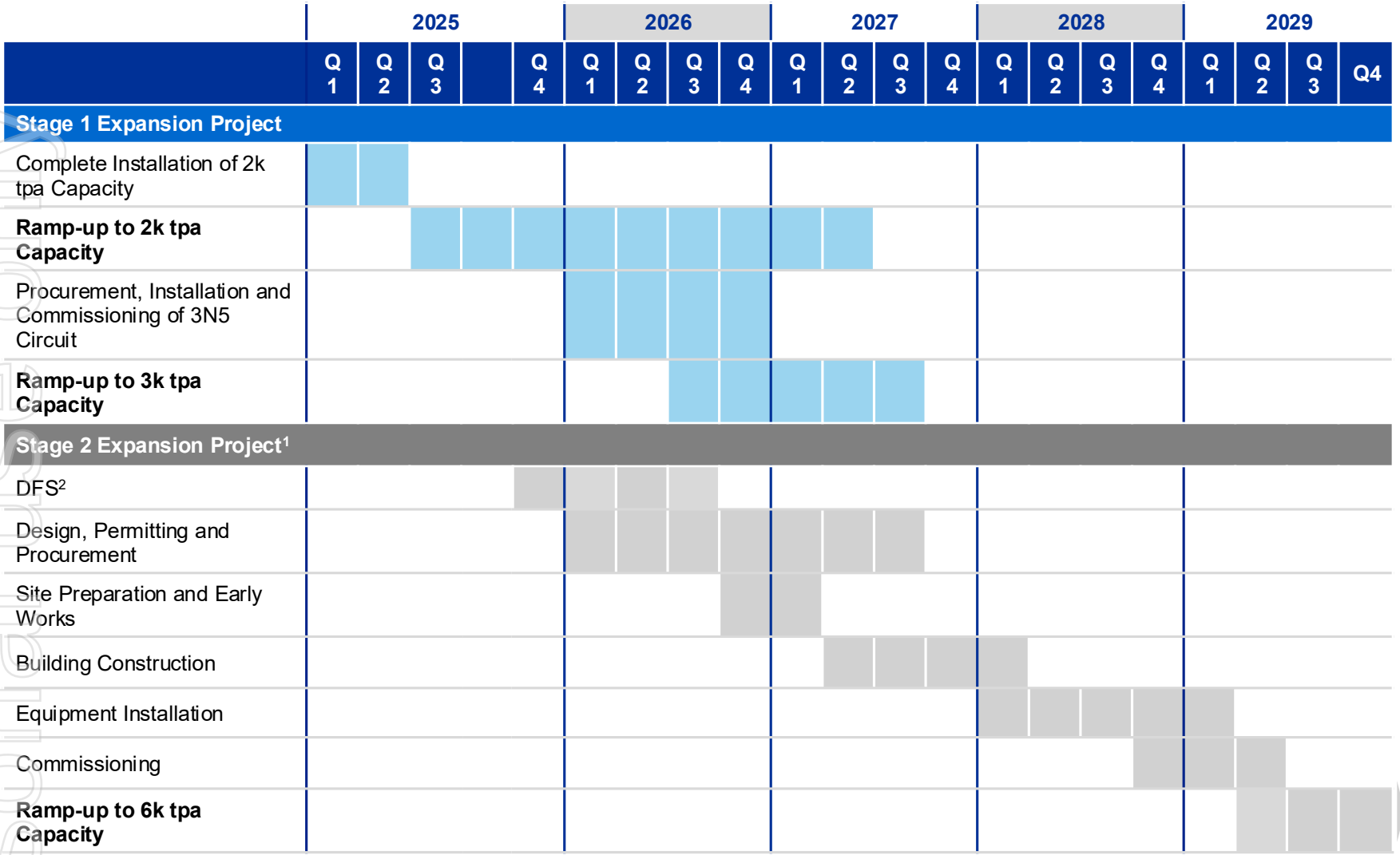
	Units	1 CM Group Current Pricing	2 CM Group Long-Term Pricing
Stage 2 Expansion Project Capex			
Initial Capex[1]	*US$m*	215.0	215.0
Steady State Metrics (From 2032)			
Production Volume	*tonnes*	~3,000	~3,000
Weighted Product Price	*US$/kg*	21.3	34.0
Revenue[3]	***US$m***	**63.6**	**102.0**
Variable Costs[4]	*US$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$/kg*	*5.5*	*5.5*
EBITDA[5]	***US$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.

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Staged Ramp Up and Expansion Plan Timetable

A clear path to 6,000 tpa HPA capacity from 2029



Notes: (1) The above timetable is based on the Stage 2 PFS and certain assumptions. The timetable is indicative only and remains subject to change. (2) DFS – Definitive Feasibility Study.

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4
Sales and Marketing

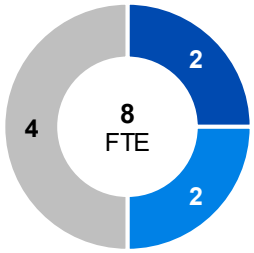
Global Sales Infrastructure

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...

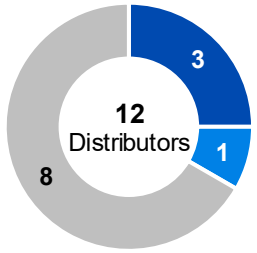
In-house Sales Team

Europe ■ North America ■ Asia

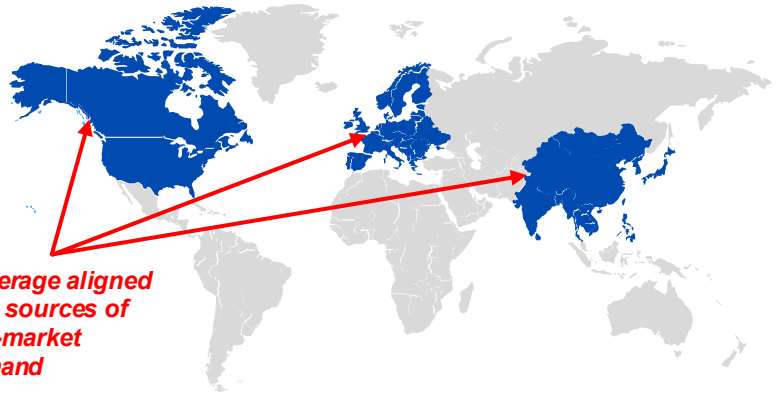


Distributors / Agents

Europe ■ North America ■ Asia



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	TOMOE, minChem

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Customer Pipeline

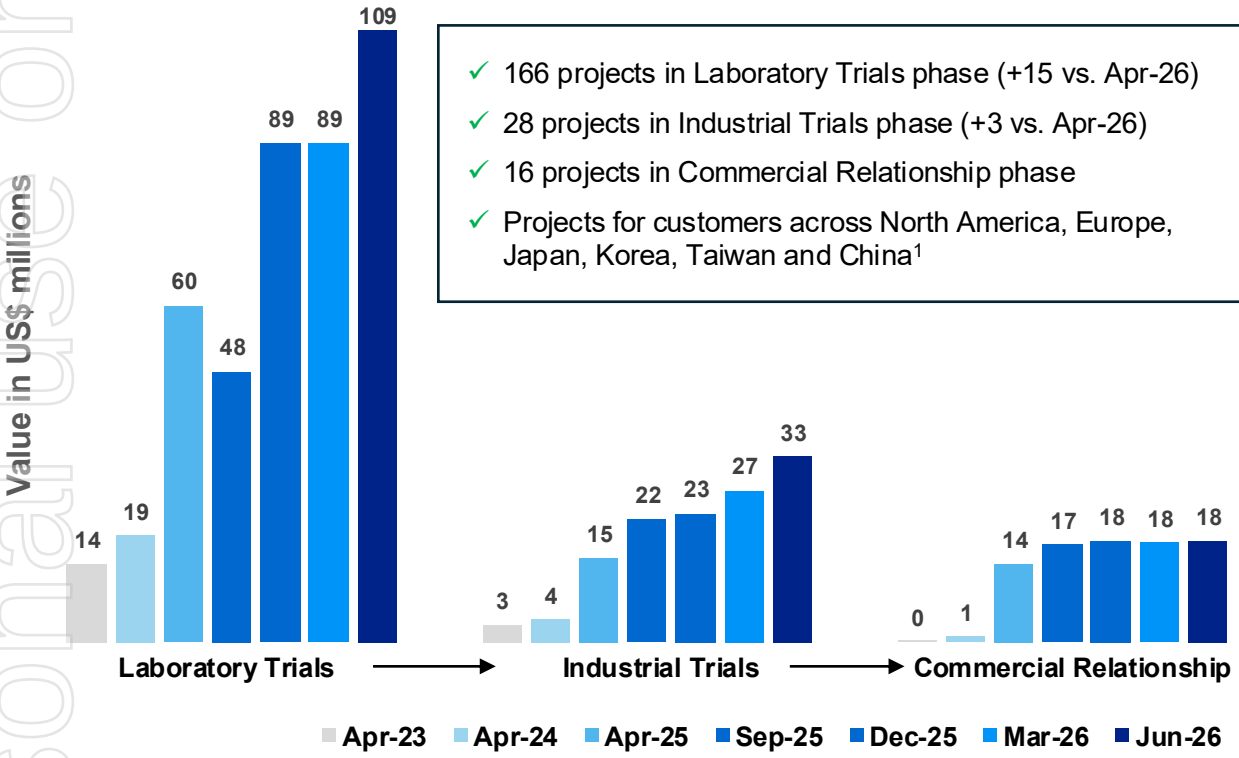
The customer pipeline with 210 projects overall has continued to grow since March with increase in industrial trials reflecting customer interest in ultra-low alpha HPA

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

~US$160m[1]
potential annual value

~5,500
tonnes per annum

~US$29/kg
average price



- ✓ 166 projects in Laboratory Trials phase (+15 vs. Apr-26)
- ✓ 28 projects in Industrial Trials phase (+3 vs. Apr-26)
- ✓ 16 projects in Commercial Relationship phase
- ✓ Projects for customers across North America, Europe, Japan, Korea, Taiwan and China[1]

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

- ✓ 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) Un-risked basis comprising ~4,200t of 4N+ and ~1,300t of 3N5+ HPA.

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Examples of Qualification Process

HPA has a wide range of downstream applications, and the qualification processes required by customers can vary significantly, due to differences in product types and application scenarios

	Customer 1	Customer 2	Customer 3	Customer 4
Description	▪ Sector: Semiconductor ▪ Turnover: ~US$300m ▪ Region: Asia ▪ Product: 4N Powder ▪ Indicated Demand: 200 tpa	▪ Sector: Sapphire ▪ Turnover: ~US$2bn ▪ Region: Asia ▪ Product: 4N Pucks ▪ Indicated Demand: 120 tpa	▪ Sector: Battery ▪ Turnover: ~US$40m ▪ Region: Europe ▪ Product: 4N Powder ▪ Indicated Demand: 40 tpa	▪ Sector: Semiconductor ▪ Turnover: Confidential ▪ Region: Asia ▪ Product: 4N Powder – low alpha ▪ Indicated Demand: 200 tpa
Qualification Process Overview	**Q1 CY24** Qualified first sample 4N powder **Q2 CY24** 400kg 4N powder for industrial production run by major chip producer **Q4 CY24** Chip producer undertakes production run/qualification **Q2 CY25** Qualified product - Commercial supply New project for advanced ceramics[1]	**Q1 CY24** 1kg material for qualification test **Q3 CY24** 1,200kg 4N puck for furnace tests and sapphire production **Q4 CY24** Customer trials with LED production runs **Q3 CY25** Successful plant audit in August 2025 and confirmation of quality (new equipment) **Q2 CY26** Qualified product - Commercial supply	**Q4 CY22** 5kg material for qualification test **Q1 CY23** 200kg 4N slurry for industrial test **Q4 CY23** 1.2 tons 4N alumina slurry for industrial test **Q1 CY25** Qualified product – Commercial supply	**Q4 CY25** 1 kg material for initial qualification test **Q1 CY26** 300kg 4N powder for tests for industrial trials **Q4 CY26** Regular supply for customer qualification

Note: (1) Project: Customer's process to qualify and, if successful, then buy product for a specific application.

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5 Management

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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

- Executive Chairman of AEM since Jan 2022
- Highly successful track record in the junior to mid-cap resources space
- Over 25 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



Michael Adams
Managing Director / CEO

- 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



Alexis Clark
Chief Financial Officer

- 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...



Stephane Blanchette
Chief Human Resources Officer



Sylvain Sayer
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

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6
Closing Remarks

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Investment Highlights

1	**Emerging Leader in HPA**	✓ Innovative HPA producer capable of producing both purity levels up to 5N (99.999%) and uranium levels less than 1ppb ✓ Commercial scale capacity of 2,000tpa at the Cap-Chat Plant delivered in 2025 placing AEM among world's leading HPA suppliers
2	**Innovative and Sustainable Production**	✓ Patented process powered 98% by renewables at <US$0.05/kWh and enabled by locally sourced feedstock ✓ Forecast to be in the bottom half of the global industry cost curve including China while producing high purity product[1]
3	**Strong Industry Tailwinds**	✓ HPA is high growth market with a ~13.6% CAGR between 2013 and 2024 with forecast ~10.0% CAGR to 2034[1] ✓ Leveraged to attractive high-tech markets and with strong tailwinds for HPA pricing driven by industry undersupply
4	**Strategic Plant Expansion Plan**	✓ Stage 1 will be completed with an additional dedicated 3N5 circuit in 2026 delivering a total of 3,000 tpa ✓ Stage 2 to deliver 6,000 tpa with PFS indicated robust project economics with steady state annual EBITDA of ~US$47.1m to ~US$85.2m[2]
5	**Robust Customer Pipeline**	✓ 16 customer projects[4] commercially engaged and 210 projects in the customer pipeline ✓ Customer pipeline of ~US$160 million per annum across North America, Europe, Japan, Korea, Taiwan, and China
6	**Experienced Leadership with Proven Capability**	✓ Experienced management team with a demonstrated track record of project construction and operational success ✓ Proven board led by Richard Seville (former MD and CEO of Allkem Lithium and NED[3] of OZ Minerals)

Notes: (1) CM Group 2025. (2) Refer to assumptions outlined on page 17. (3) Non-Executive Director. (4) Project: Customer's process to qualify and, if successful, then buy product for a specific application.

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