



ASX ANNOUNCEMENT

7 May 2024

ChemX Materials (ASX:CMX) (ChemX or the Company), an Australian high purity critical materials company, is pleased to advise Chief Executive Officer Peter Lee will be delivering the attached presentation during ChemX's national investor roadshow this week.

Shareholders are reminded that the Company's Share Purchase Plan is due to close at 5.00pm (WST) on Friday 10th May 2024. Shareholders can access the offer via the secure link on the Company's website <https://cmxspoffer.computersharecas.com.au/offer/>

This Announcement has been authorised for release by the Board.

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The Company confirms that it is not aware of any new information or data that materially affects the information in the relevant market announcements, and that the form and context in which the Competent Persons findings presented have not been materially modified from the original announcements.

About ChemX Materials (ASX: CMX)

ChemX Materials (ASX:CMX) is an ASX-listed critical materials company developing innovative processing technology to produce high purity alumina for advanced technology and clean energy applications. ChemX Materials' 100% owned, Australian patented HiPurA[®] process technology offers a low cost and energy intensity production method to produce high purity alumina (HPA). The Company's vision is to support the clean energy transition through the delivery of high purity materials and technology that provide real solutions to lowering carbon emissions. The Company is currently constructing a 24 tpa HiPurA[®] Pilot Plant in Perth, Western Australia along with a high purity manganese (HPM) Project on the Eyre Peninsula in South Australia.

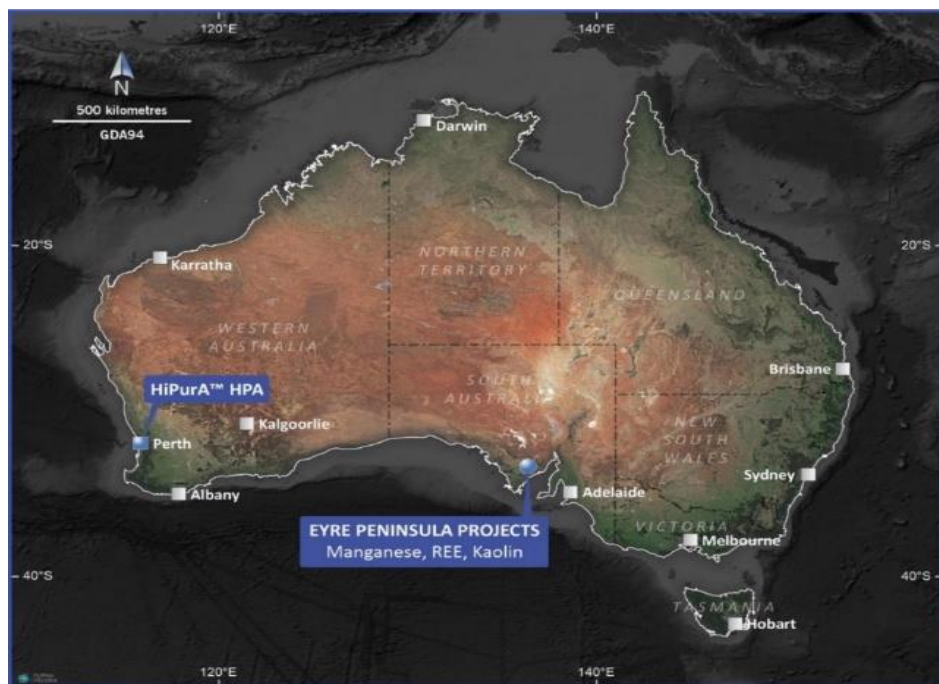


Figure 1 - ChemX Materials' project locations.

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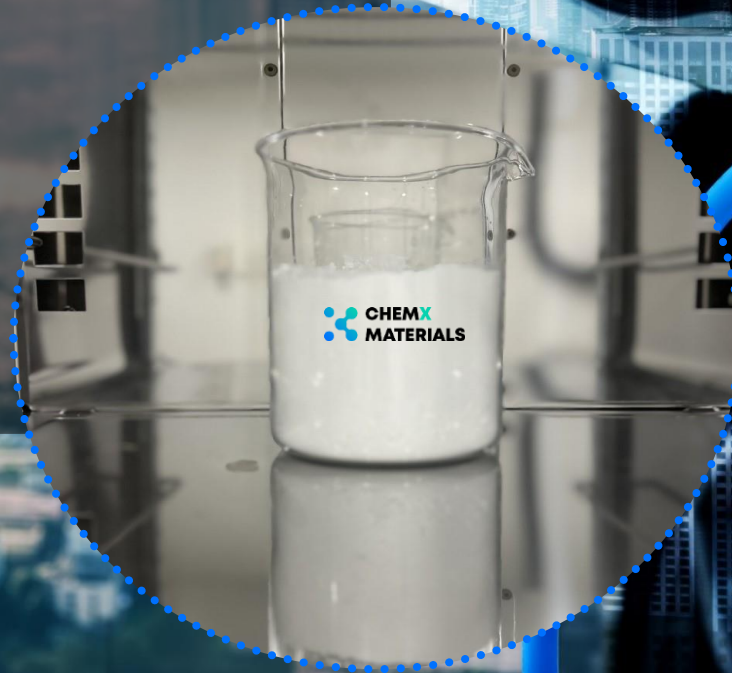
Or subscribe for updates via website:

www.chemxmaterials.com.au

On the cusp of Australian
High Purity Alumina (HPA)
production at scale

INVESTOR PRESENTATION

MAY 2024 ASX:CMX



Important Information

Disclaimer and Forward-Looking Statements

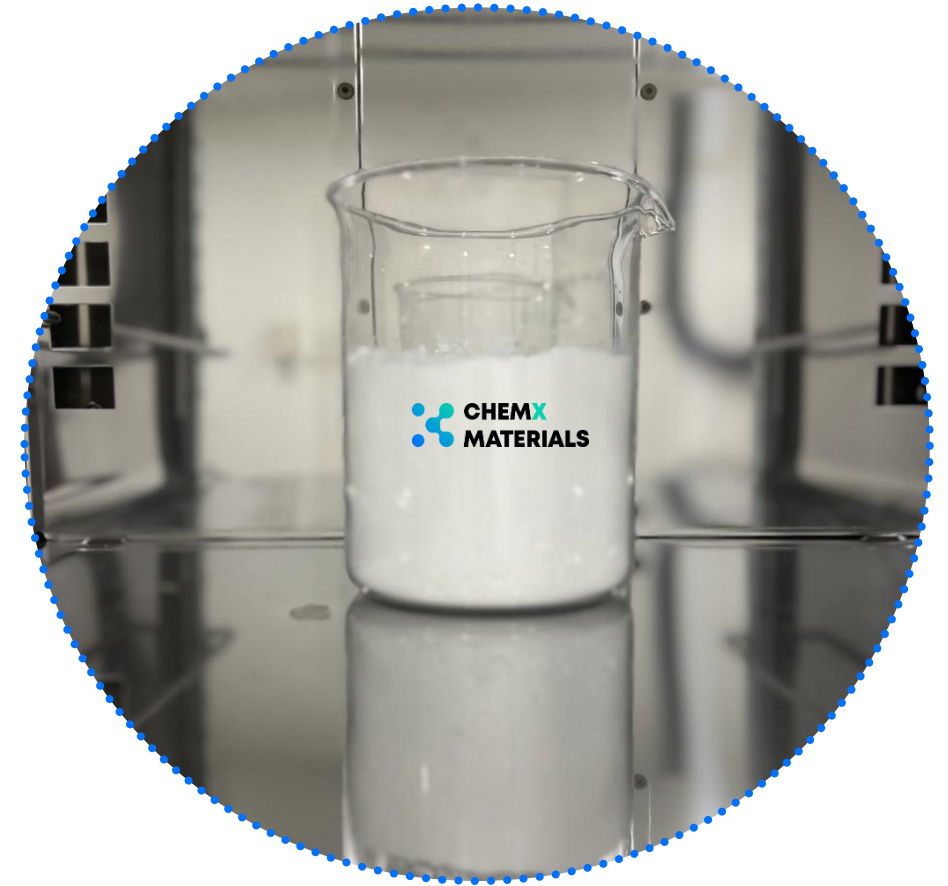
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Who is ChemX Materials

An Australian critical materials company on the cusp of high purity alumina (HPA) production at scale

- 100% owned, Australian patented, HiPurA[®], high purity alumina, processing technology.
- ChemX has produced HPA above 4Ns (99.99%) purity at Micro Plant scale.
- HiPurA[®] 24tpa pilot plant under construction to deliver HPA at scale (x100 Micro Plant scale).
- Targeting to produce 100 kg/d 4N/5N HPA once in production CY2024.
- South Australian High Purity Manganese (HPM) asset internal scoping study advanced.



Above 4Ns (99.99%) pure HPA produced at Micro Plant scale in 2023.

Experienced team to drive production and scalability



Warrick Hazeldine
Non-Executive Chair

20+ years' experience across capital markets and strategic communications with a focus on battery materials.



Alwyn Vorster
Non-Executive Director

30+ years' experience in technical and senior commercial (including offtake & approvals) and leadership roles across the mining supply chain.



Stephen Strubel
**Executive Director /
Company Secretary**

Company Founder with 20 years' experience in finance and corporate governance.



Peter Lee
Chief Executive Officer

20+ years' tier one operational and technical experience across mining, metals processing and chemical industries within Canada and Australia.



Linda Gimondo
Head of Corporate Affairs

20+ years' experience in Corporate Affairs (most recently Pilbara Minerals) specialising in government relations, reputation and brand management.



Russell Vallis
Operations Manager HPA

20+ years' experience across the advanced materials and nanotechnology sectors and in project delivery.

ChemX Materials Capital Structure

Tight Capital structure¹

Ordinary Shares:	117,280,681
Options various strike prices:	37,644,774
Performance Shares and Rights:	4,200,000
Convertible Note ² :	2,640,000

Share Purchase Plan (SPP) Open³

- Seeking \$500,000 at \$0.048
- 1 Option for 2 shares held 3 year term strike price \$0.09
- Closes 5pm (WST) Friday 10 May 2024

¹ See ChemX ASX Appendix 2A, 9/4/2024

² Refer ASX Announcement 4/8/2023 and 9/10/2023

³ The Company's Share Purchase Plan for the Issue of up to 10,416,667 shares and 5,208,334 options closes on 10 May 2024



Photo (left) - CEO, Peter Lee attending the Interbattery Conference 2024 (Seoul, Korea).

Photo (right) - CEO, Peter Lee addresses the Tribeca Resources Connect Asia Conference 2024 (Singapore).

HiPurA[®] processing technology

Innovative processing method to supply HPA to the lithium-ion battery, synthetic sapphire, LED and semiconductor industries

- 100% - ChemX owned, Australian patented technology.
- Patents pending in other international jurisdictions.
- Micro Plant has proven HiPurA[®] can produce HPA above 4N (99.99%) purity.
- 24tpa HiPurA[®] Pilot Plant under construction, commissioning targeted for mid 2024.
- HiPurA[®] Pilot Plant production samples for customer qualification.



ChemX Team holding the Australian patent for HiPurA[®] within the Pilot Plant.

HiPurA[®] - a game changing commercialisation pathway



HiPurA[®]
laboratory



Complete



HiPurA[®]
Micro Plant



Complete



Optimisation
and design

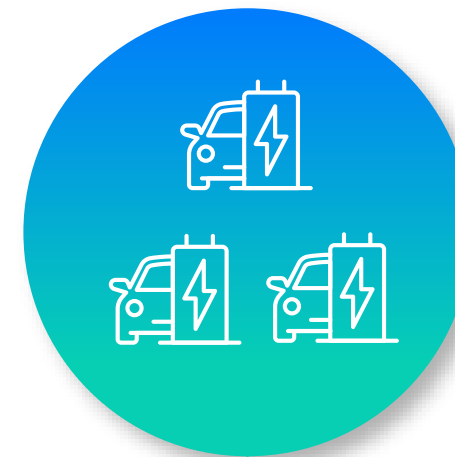


Complete



HiPurA[®] Pilot
Plant

- Construction underway
- Commissioning targeted Q2 CY2024
- Marketing and customer engagement underway



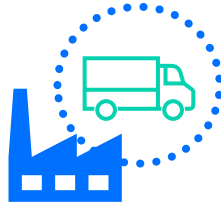
HiPurA[®] commercial
plant and/or
licencing of
technology to end
users

HiPurA[®] competitive advantages



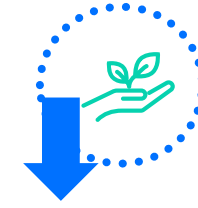
Lower costs

both capital and operating lower than Kaolin to HPA.



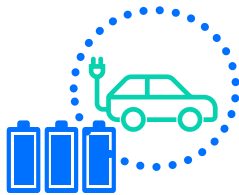
Independent feedstock

process is not tied to mine production and uses a readily available aluminous industrial chemical.



Lower carbon footprint

low energy intensity technology.



Modular

can be built near end users' manufacturing operations.



Easily scalable

production output can increase based on demand.



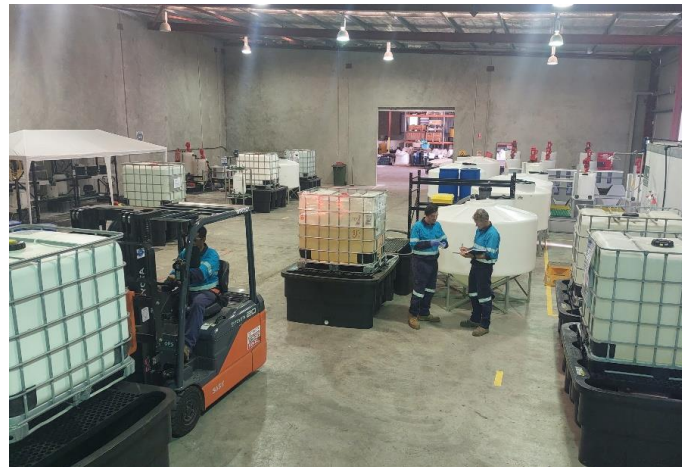
Optionality

Australian patented technology can be licenced to end users.

Pictures of progress – HPA Pilot Plant 24tpa

Solvent extraction installation

- 100 kg/d HPA production capacity
- Patented technology
- 4N and 5N HPA capable
- Modular, scalable deployment
- Low energy, carbon intensity



Australian Government engagement

Co-funding partnership opportunities for Australian critical material companies like ChemX

- ChemX has appointed a government funding and relationships expert.
- Multi-billion critical minerals funding facility.
- Future Made in Australia Act proposal.
- National Reconstruction Fund - \$15B investment.
- High purity alumina on Australia’s critical minerals list.
- Ongoing dialogue with end users and governments around the globe.



Visits to ChemX's facilities by senior Government Ministers
Top - Minister for Industry, Hon Ed Husic MP and Federal Member for Fremantle, Hon Josh Wilson MP.

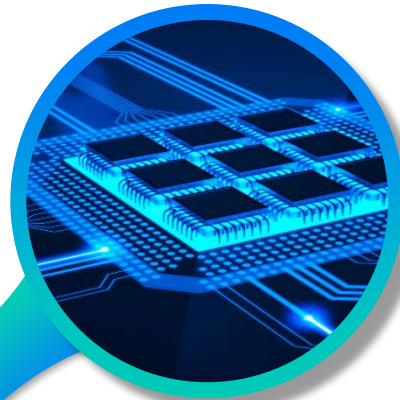
Bottom - Minister for Resources, Hon Madeleine King MP and past WA State Minister for Mines, Hon Bill Johnston MLA.



HPA critical for high tech and clean energy applications

LEDs

- Sapphire substrates (TVs, Mobile Phones, Tablets)
- Fluorescent lights
- Synthetic sapphire glass (Watches, Lenses, Defence applications)

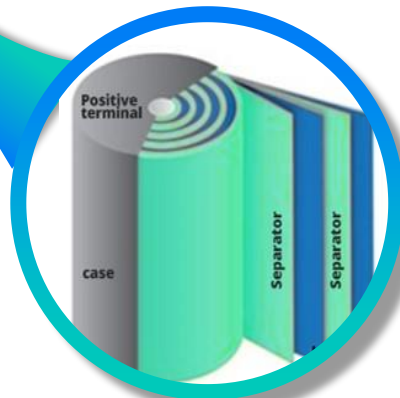


SEMICONDUCTORS

- Boehmites for chemical mechanical planarization (CMP) slurries
- Al-Nitrates and Al-Sulphates for CMP slurries
- Nano HPA for polishing silicon chips used in AI

ELECTRIC VEHICLES

- Li-battery separators
- Li-battery cathode chemistry (e.g. LMFP, NMC, NMX)
- Precursors for Li-battery anodes (coating)



Building safer, smarter batteries

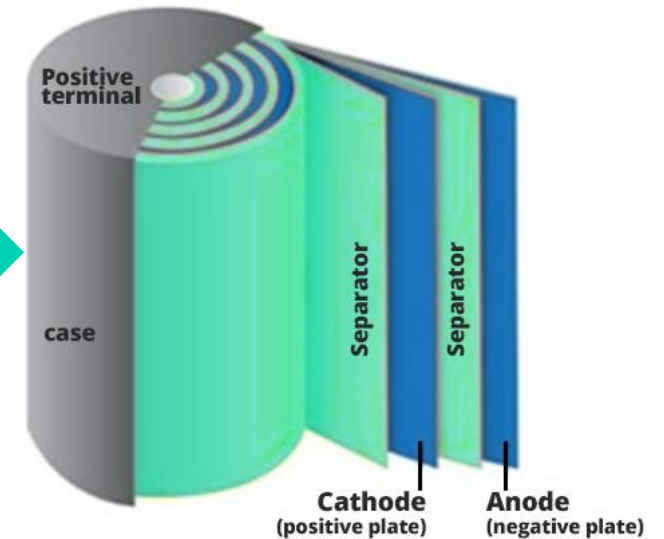
HPA is used to coat separators in lithium-ion batteries

High purity alumina is known for:

- Its inert chemical stability and hardness.
- Good thermal conductivity.
- High electrical insulative properties.

Used in battery technology HPA provides:

- Greater thermal stability which:
 - ✓ reduces the risk of batteries catching fires.
 - ✓ improves battery life cycle and lowers self-discharge.



Lithium-ion battery - HPA is used to coat the separators.

Target markets to drive shareholder value

Innovative processing method to supply HPA to the lithium-ion battery, LED and semiconductor industries globally

Likely revenue streams:

- Joint Venture
- Technology Licencing
- Offtake
- Pre-payment

South Korea

- Large conglomerate EV materials producers
- 26% of global EV market
- Second largest semiconductor manufacturer

Japan

- Large conglomerate EV materials producers
- World's second biggest automaker

USA

- Inflation Reduction Act
- Targeting domestic battery manufacturing investment

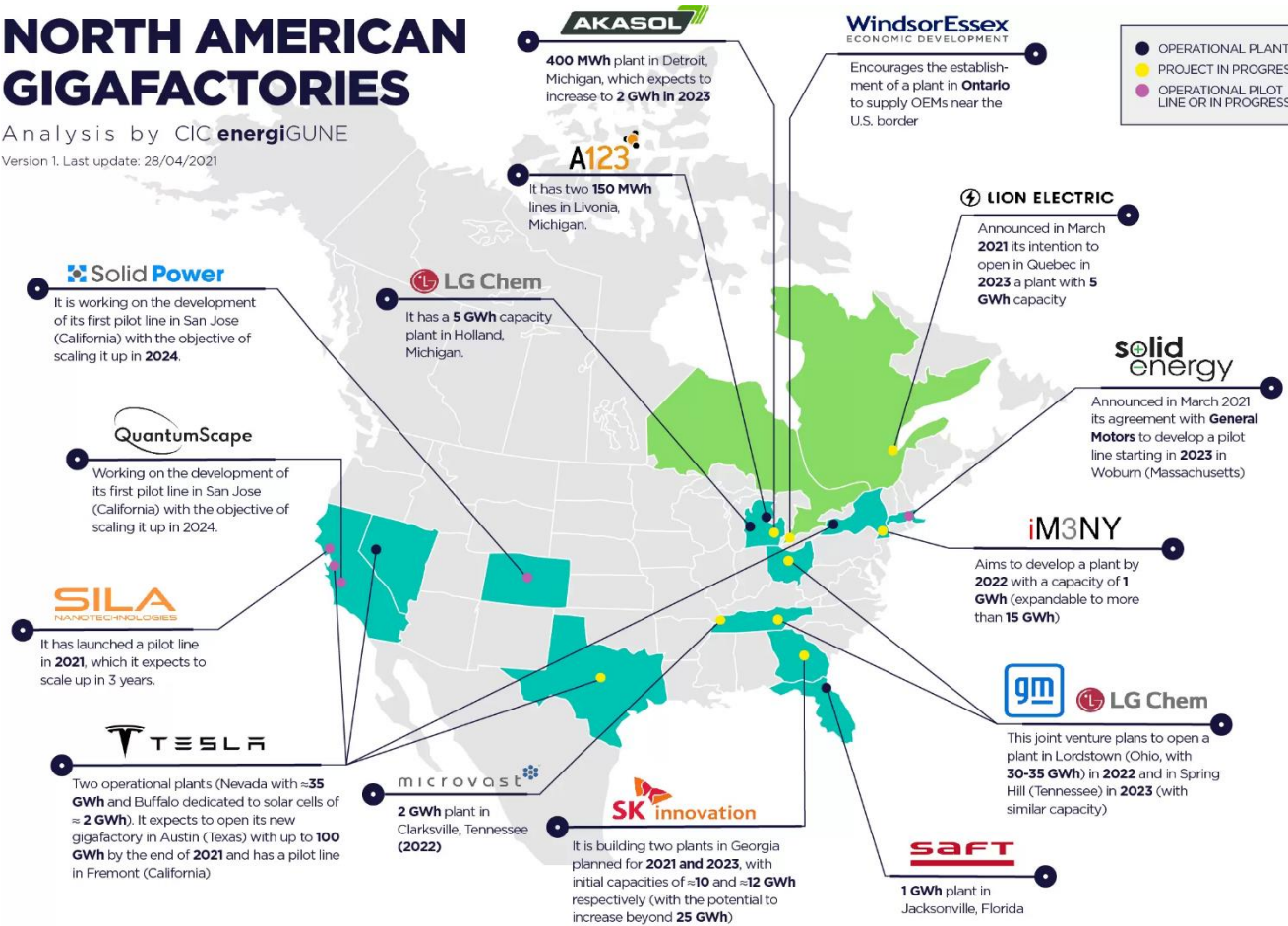


Strategic North American focus

NORTH AMERICAN GIGAFACTORIES

Analysis by CIC energiGUNE

Version 1. Last update: 28/04/2021



Project 2 – High Purity Manganese (HPM)

Manganese the essential high purity cathode and industrial material



Jamieson Tank Manganese Project, South Australia

Developing an Australian manganese asset

- Exploration tenements cover a combined area of 718km².
- Located 150km south-west of Whyalla on the Eyre Peninsular in South Australia.

Infrastructure rich region

- Rapidly developing renewable energy infrastructure (wind, solar and future hydrogen).
- Sealed roads, approx. 160km to Port of Whyalla.
- Local skilled workforce and social infrastructure with major regional airport for workforce expansion.
- Internal scoping study advanced.



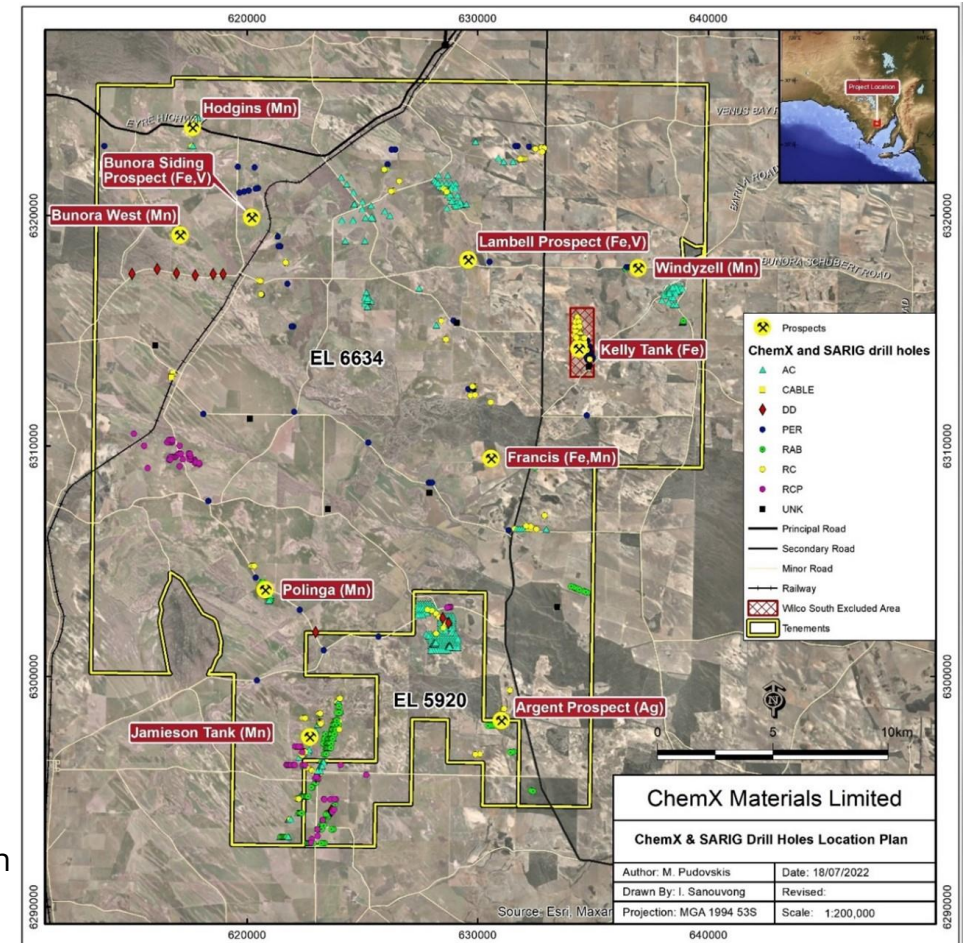
Jamieson Tank Manganese Project, South Australia

Developing an Australian manganese asset

- Maiden Mineral Resource 13.1 Mt at 5.7%Mn established within 2023 drilling program.
- Significant potential upside with ~70% of the identified Jamieson Tank strike awaiting further extensional drilling of high grade, near surface targets.
- Testwork shows an accessible, near-surface resource with excellent upgrade characteristics.

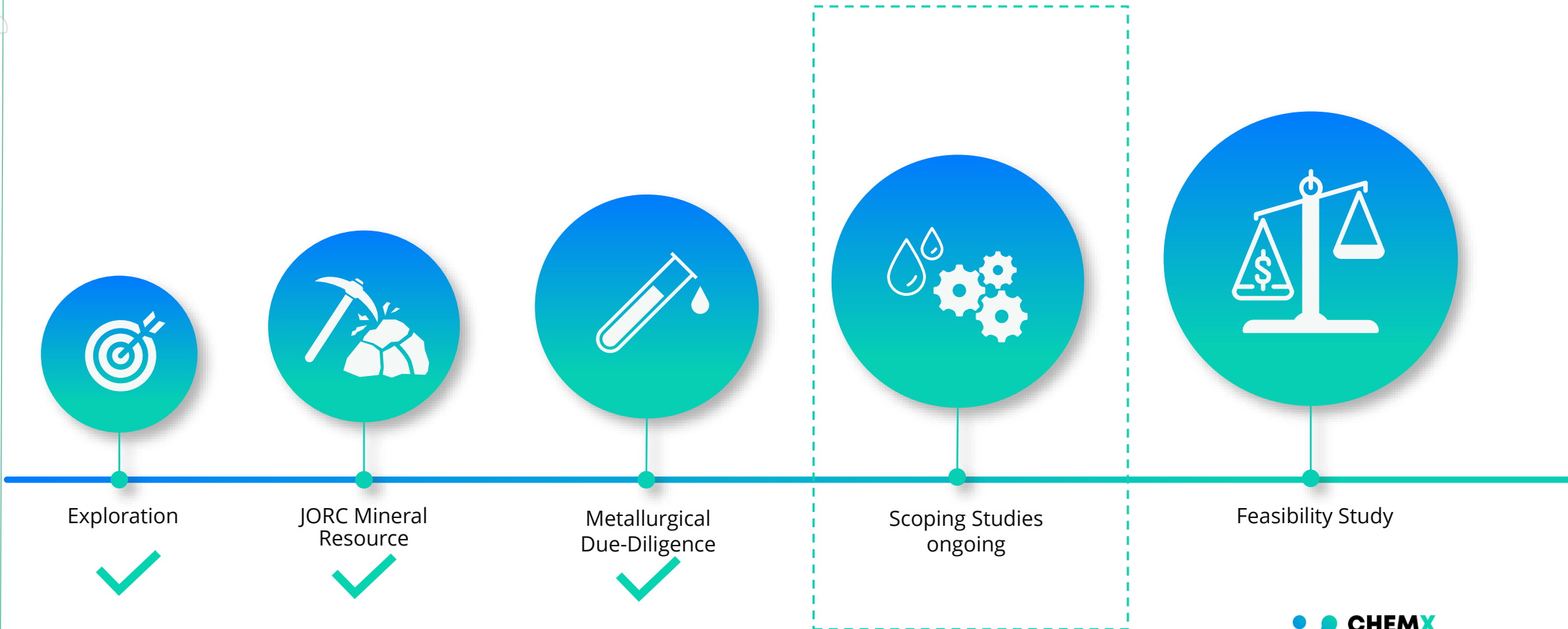
JORC classification	Tonnes (Mt)	Mn (%)	Fe (%)	SiO ₂ (%)	Al ₂ O ₃ (%)	P (%)
Indicated	2.7	5.9	14.8	48.9	9.1	0.093
Inferred	10.4	5.6	14.8	48.7	10.2	0.095
Total	13.1	5.7	14.8	48.7	10.0	0.094

Table A: Mineral Resource estimate (MRE) summary, with applied grade cut-off 4%Mn



De-risking project outcomes

Building a high purity manganese for export to global battery manufacturers



Why invest?

ChemX on the cusp of high purity alumina production at scale



Proven technology

Proven HiPurA® can produce an above 4N (99.99%) pure HPA at Micro Plant scale.



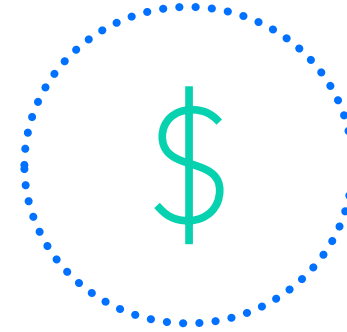
Innovative and sustainable

Australian patented technology that is lower in energy intensity than alternative methods.



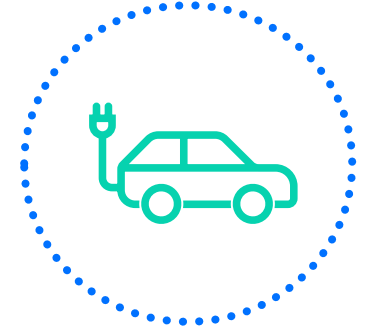
Flexible

HiPurA® not tied to mine production and scalable and modular so can be located close to end users.



Commercialisation

HiPurA® pilot plant to be commissioned in June Quarter 2024 paving way for commercialisation.



Growing market

Global demand for HPA is growing as the world pursues clean energy and advanced technologies.

Mineral Resources Disclosure

Information on historical exploration results and Mineral Resources for the Jamieson Tank Manganese Project presented in this announcement, together with JORC Table 1 information, is contained in an ASX announcement released on 20 September 2023.

The Company confirms that it is not aware of any new information or data that materially affects the information in the relevant market announcements, and that the form and context in which the Competent Persons findings are presented have not been materially modified from the original announcements.

Where the Company refers to Mineral Resources for the Jamieson Tank Manganese Project in this announcement (referencing previous releases made to the ASX), it confirms that it is not aware of any new information or data that materially affects the information included in that announcement and all material assumptions and technical parameters underpinning the Mineral Resource estimate in that announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons findings are presented have not materially changed from the original announcement.



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