



DEVELOPING HIGH PURITY MATERIALS FOR BETTER BATTERIES



<https://chemxmaterials.com.au/>

AGM 2023

INVESTOR PRESENTATION

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The team to drive success



Warrick Hazeldine Non-Executive Chair

20+ years' experience across capital markets and strategic communications with a focus on battery materials. Co-founder of advisory firm Cannings Purple. Former Chair and Non-Executive Director of Global Lithium Resources Ltd (ASX:GL1); Director of Surfing WA, Advisory Board Member of Curtin University.



Alwyn Vorster Non-Executive Director

30+ years' experience in Resources, most recently CEO of ASX Listed Hastings Limited (rare earths). Formerly MD of ASX-listed BCI Minerals Ltd (iron ore, salt, potash) and MD of Iron Ore Holdings Ltd (iron ore). Currently NED of Lindian Resources (rare earths and bauxite), and Arrow Minerals (iron ore).



Stephen Strubel Executive Director / Company Secretary

Company Founder with 20 years' experience in finance and corporate governance. Senior role with Patersons Securities and Director and Company Secretary for ASX-listed companies.



Peter Lee Chief Executive Officer

20+ Years' experience across mining, metals processing and chemical industries within Canada and Australia. Previous roles include technical management for tier-one companies in Refining and Electrochemical processes, most recently Executive Process Engineer WSPGolder. Peter is a registered P. Eng EGBC Canada, MAusIMM and MAICD.

The team to drive success



Alison Dines Exploration Manager

Experienced geologist with 13 Years in the minerals exploration industry. Significant experience managing critical minerals development projects delivering mineral resource upgrades. Member AIG. Alison holds a Bachelor of Science (Geology and Geophysics), University of Sydney.



Steve Arndt Community & Stakeholder Advisor

20+ years' experience in regional economic development, stakeholder and community engagement, Government Relations and Aboriginal Affairs. 20 years' living and working in Whyalla and across the Upper Spencer Gulf and Eyre Peninsula regions. Eight years' with BHP Olympic Dam in a range of Corporate Affairs roles, now consulting to mineral resources, renewable energy and infrastructure project developers.



Russell Vallis Operations Manager HPA

20+ years experience, including 13 years in the advanced materials sector, 10 years in project delivery management. Experience in pilot plant & scale up of bespoke chemical processes. Russell holds a BSc (Inorganic and Physical Chemistry) and BE (Materials Engineering) from the University of Western Australia.

2023 – A Year of Firsts

It's been a year of many firsts for ChemX Materials with significant achievement in advancing our key projects...

Delivering Strategy

- ✓ Capital raise completed with sophisticated existing institutional investor (4-Aug)
- ✓ Ongoing global marketing (Europe, USA, Asia)

High-Purity Manganese (HPM)

- ✓ In-fill drill completed on 100% CMX tenements
- ✓ Maiden mineral resource announced (13Mt @5.7%Mn) 20-Sep
- ✓ Internal scoping study commenced with Wood (18-Sep)
- ✓ 2024 exploration advanced to double tonnes & grade

High-Purity Alumina (HPA)

- ✓ Microplant achieves better than 99.99% (4N) purity (across 66 elements) (6-Sep, 13-Nov)
- ✓ Internal laboratory capability expanded
- ✓ Pilot plant delivery accelerated
- ✓ HiPurA® High-Purity Alumina process (patent pending)



*Recent siting visit to Whyalla.
Pictured: Peter Lee (CEO) and Alwyn Vorster (Non-Executive Director)*

ChemX - Strategic Asset Development



1

100% Owned Manganese Mineral Deposit in South Australia



2

In-house Processing and Development Expertise (HiPurA®)



3

Customer Engagement and Qualification



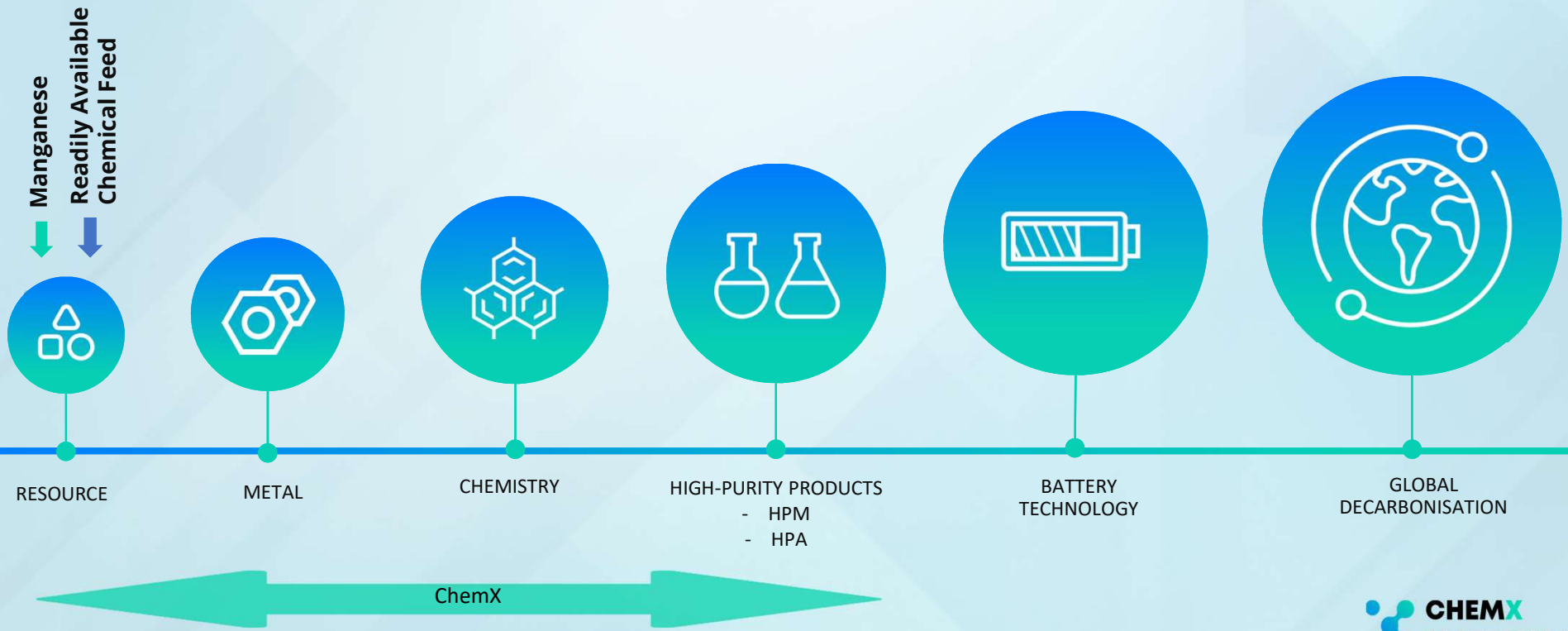
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Offtake and Development Partners

Integrated Business Model Of High Purity Materials

Building momentum in downstream processing in Australia

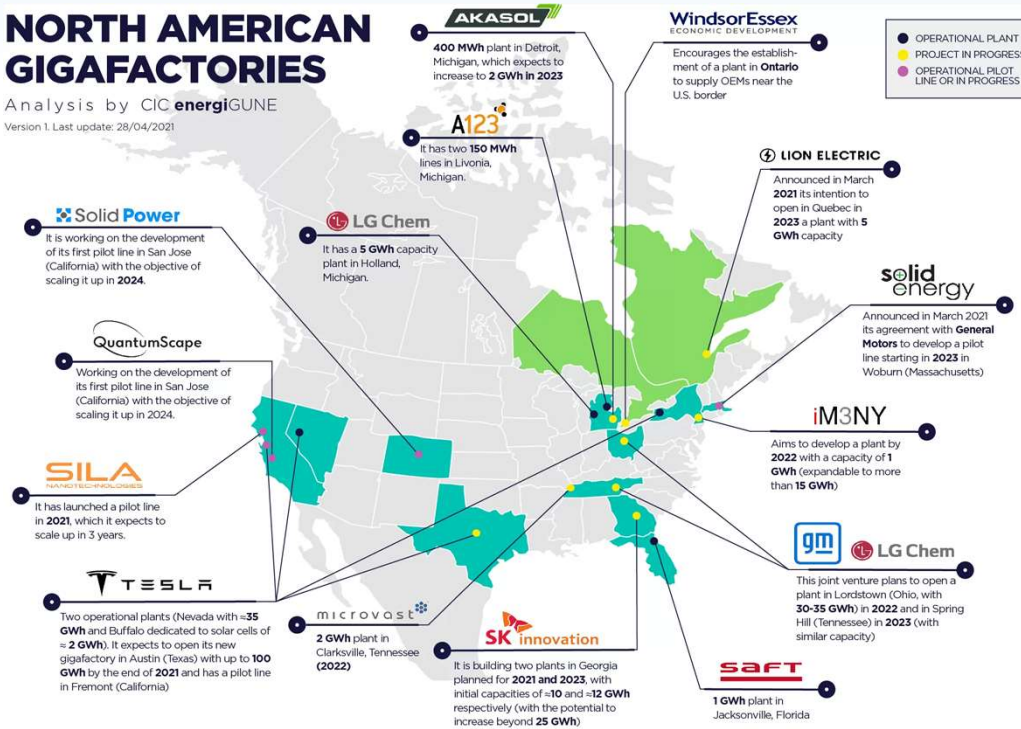
MATERIALS FOR A HIGH TECH WORLD



Strategic Partners

NORTH AMERICAN GIGAFACTORIES

Analysis by CIC energiGUNE
Version 1. Last update: 28/04/2021



Pure Battery Technologies (PBT)

- ✓ Building a pCAM hub in the Kalgoorlie-Coolgardie region of Western Australia. The Project will initially produce 50,000tpa of pCAM expandable to 100,000tpa within 5 years.

C4V

- ✓ Independent lithium-ion cell manufacturer, Imperium3 New York (iM3NY), developing the first US-owned manufacturing facility for lithium-ion electrochemical cell production.



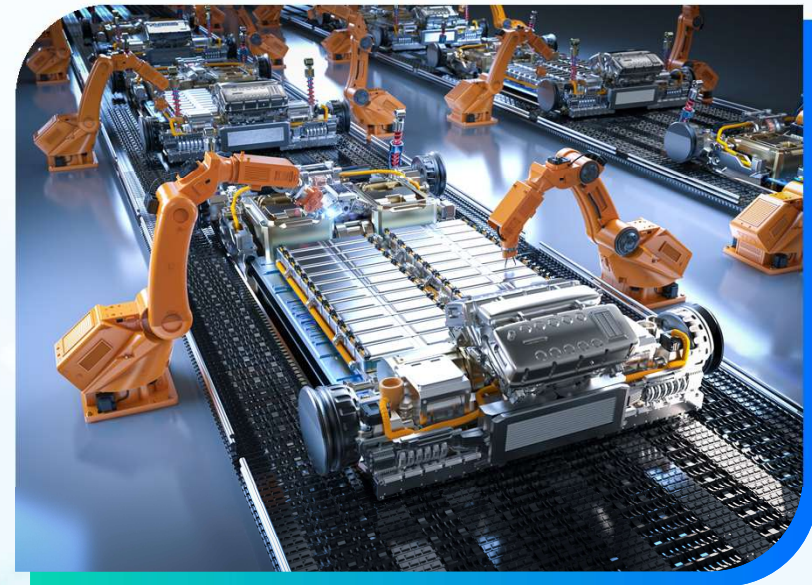
High Purity Alumina The Critical Material For The Future Of Technology

HPA Production Technology

The High Purity Alumina (HPA) market is driven by the demand for lithium-ion batteries, LED's, semiconductors, and new technologies.

A key Safety component of Lithium-ion batteries

- ✓ Coated on the lithium battery separator, HPA provides significant additional thermal capacity.
- ✓ ChemX technology is able to produce several high purity aluminous chemicals for various emerging cathode chemistries.
- ✓ ChemX has achieved better than 4N (99.99%), opening the potential for synthetic sapphire markets.





De-risking Project Outcomes

High Purity Alumina

Rapid development of downstream high purity technology

MATERIALS FOR A HIGH TECH WORLD



HiPurA®
Laboratory



HiPurA® Micro
Plant



Optimisation



HiPurA® Pilot
Plant



HiPurA® Commercial
Plant



HPA Strategy



High
Purity



Manganese the essential high
purity cathode and industrial
material



South Australia – Infrastructure Rich, Competitive Advantage

High Purity Manganese

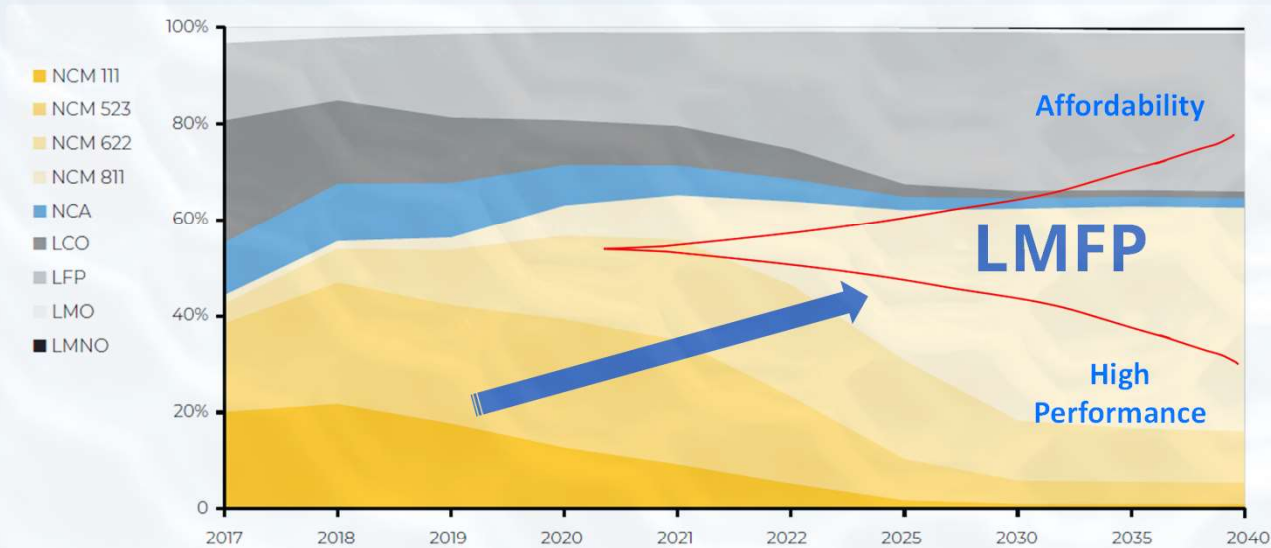
- Located within premier renewable energy province with rapidly developing renewable energy infrastructure (wind, solar and future hydrogen)
- Sealed roads, approx. 160km to understated Port of Whyalla
- Local skilled workforce with major regional airport for workforce expansion
- 5th generation freehold farmland



LMFP Chemistries – Emergent and Understated

Production Capacity by Cathode Type

Source: Benchmark Mineral Intelligence, June 2023



Source: McKinsey at LME 9 Oct 2023



De-risking Project Outcomes

High Purity Manganese

Building a high purity battery export material in South Australia

MATERIALS FOR A HIGH TECH WORLD



Exploration



JORC Mineral Resource



Metallurgical Due-Diligence

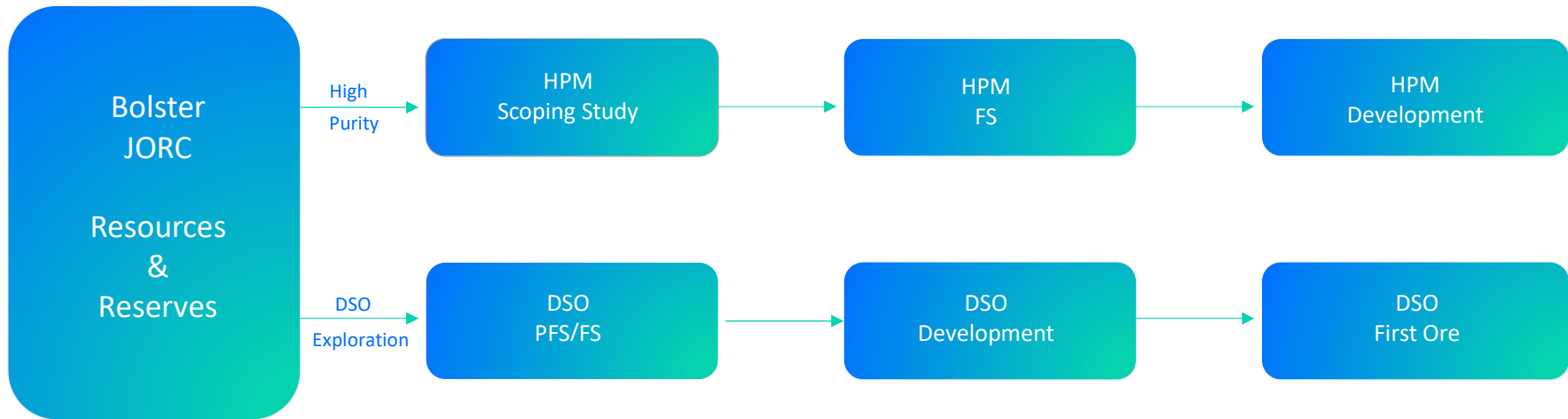


Pre-feasibility Studies (Beneficiation, Hydrometallurgy)



Bankable Feasibility Study

Manganese Strategy



MATERIALS FOR A HIGH TECH WORLD

Investment Highlights

- 1 Unique HiPurA® chemical-based process to produce High Purity Alumina (HPA) successfully scaled up from laboratory to bench scale Micro Plant. Scalable and modular process allowing for deployment in key Asian, European, American markets
- 2 HiPurA® HPA now demonstrated achievement of better than 4N HPA (99.99%) with international patent pending
- 3 Manganese Maiden Mineral Resource 13.1Mt at 5.7%Mn established, with High Grade Manganese identified and awaiting drilling in 2024
- 4 Significant potential upside with ~66% of the identified Jamieson Tank strike awaiting further extensional drilling of high grade, with known near surface targets
- 5 Exploring potential for DSO Manganese with current tenements to exploit existing world-class Whyalla infrastructure including Port, Industrially skilled residential workforce, and abundant renewables energy landscape.

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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