



ASX ANNOUNCEMENT

6 April 2022

ChemX Materials – Investor Presentation

ChemX Materials (ASX:CMX) (ChemX or the Company), a materials technology company focused on providing critical materials required for electrification and decarbonisation, is pleased to advise that its Managing Director, David Leavy, will be delivering the following presentation at the Paydirt Battery Minerals Conference on Thursday 7 April 2022 at 2.20pm AEST and for those unable to attend, at the live investor briefing on **Friday 8 April 2022 at 10.00am AEST**.

Details of the live investor briefing were released to the ASX platform on 4 March 2022.

This Announcement has been authorised for release by the Board.

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About ChemX Materials (ASX: CMX)

ChemX is a materials technology company focused on providing critical materials required for electrification and decarbonisation. The Company's vision is to support the energy transition with materials and technology that provide real solutions to lowering carbon emissions.

Developed in-house, ChemX's HiPurA™ Process is a unique technology that is capable of producing high purity alumina (HPA) and high purity aluminium cathode precursor salts for lithium-ion batteries. Initial testwork has indicated that the process is low cost and low in energy consumption, compared to alternative technologies. A key competitive advantage is that the HiPurA™ process is not tied to mine production, with the feedstock being a widely available chemical.

The Company has projects in South Australia and Western Australia.

The South Australian Eyre Peninsula projects include the Kimba Kaolin-Halloysite Project and the Jamieson Tank Manganese Project. The ChemX HiPurA™ Project is located in Western Australia.

www.chemxmaterials.com.au

[LinkedIn](#)

Directors

Kristie Young	Non-Executive Chair
David Leavy	Managing Director
Stephen Strubel	Executive Director
Warrick Hazeldine	Non-Executive Director



MATERIALS FOR A HIGH TECH WORLD

High Purity Alumina (HPA) for battery technologies
Critical materials for electrification and carbon reduction

April 2022
ASX: CMX

IMPORTANT INFORMATION

Disclaimer and Forward-Looking Statements

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This presentation contains no new information to the market.

CHEM**X** OVERVIEW

The Chemistry X Factor



Commercialising Technology and Innovation



Decarbonisation



Critical Materials for Electrification

ChemX – A Unique Offering

1

HiPurA™ High Purity Alumina (HPA)

Innovative, in-house production technology method to produce High Purity Alumina (HPA) – a critical input for battery technology, LED & semiconductor supply chains.

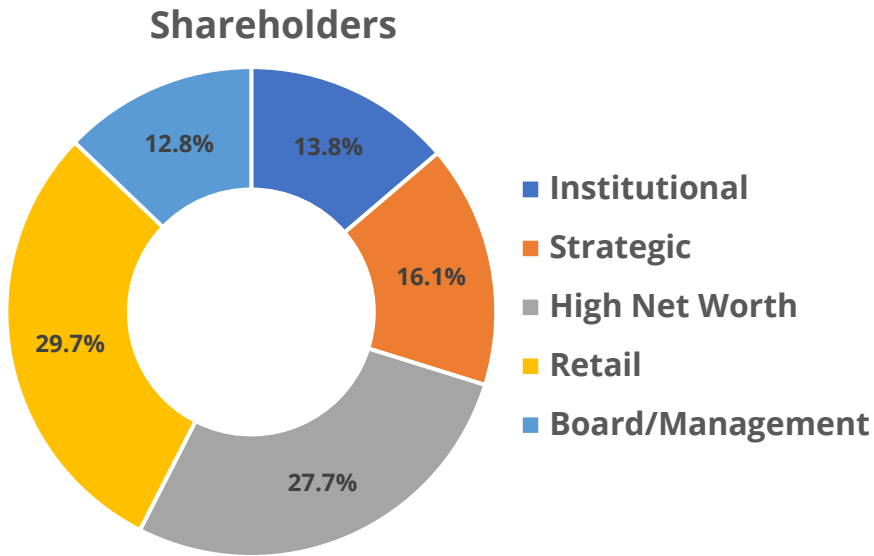
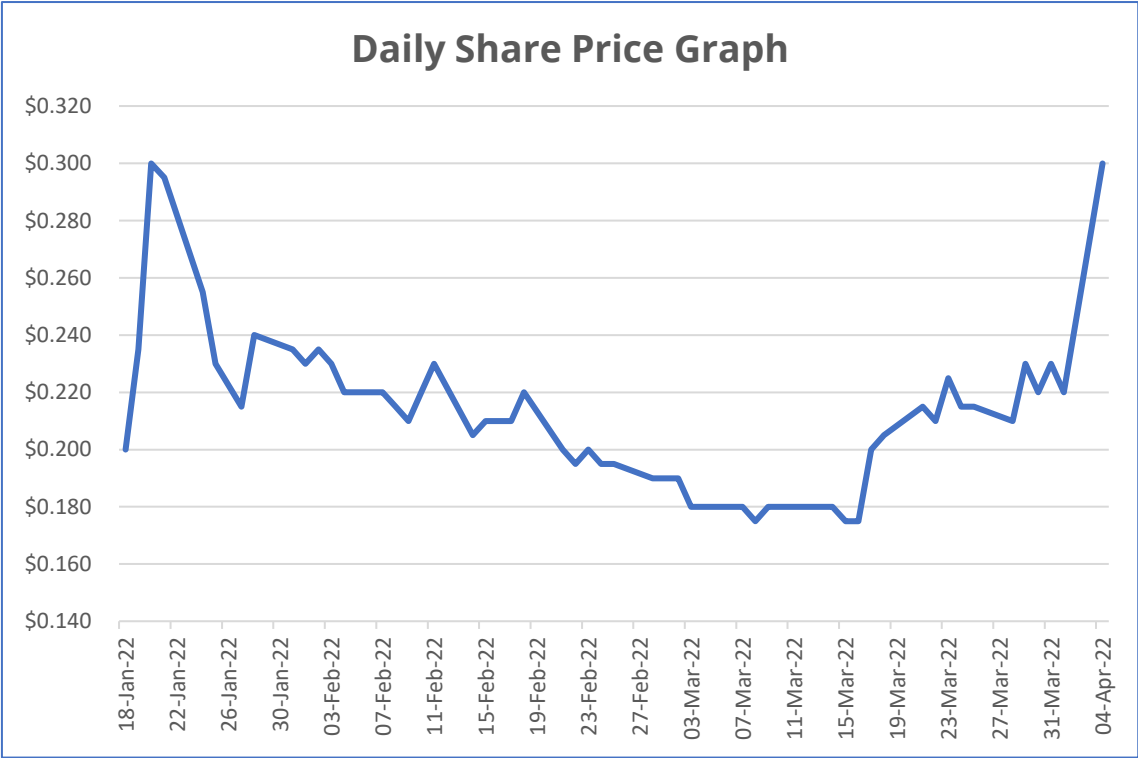
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Eyre Peninsula Projects

Developing cathode precursors and materials required to decarbonize industrial processes - kaolin, halloysite, REE and manganese – assaying underway.

3

CORPORATE SNAPSHOT (as of 4 April 2022)



ASX : CMX		
Ordinary Shares On Issue	90,771,744	
Options (Expiry 1 Nov 2024)	2,000,000	Strike \$0.30
Options (Expiry 18 Jan 2025)	2,000,000	Strike \$0.30
Market Cap (29 March '22)	\$19 mil	

BOARD & MANAGEMENT



Kristie Young | Non-Executive Chair

Over 20 years' experience across mining, engineering, project evaluation, professional services (EY & PwC), executive search, business development & advisory, technology & other sectors. Kristie is on the boards of Lithium Australia NL (ASX:LIT), Tesoro Resources Ltd (ASX:TSO) and Wesley College WA.



Warrick Hazeldine | Non-Executive Director

20+ years capital markets experience from working with a range of ASX companies as Founder of advisory firm Cannings Purple, mainly in the natural resources sector including key roles in several hydrogen and battery metal transactions. Warrick is the Chair of Global Lithium Exploration Ltd (ASX:GL1) and a director of Surfing WA.



Stephen Strubel | Executive Director

Experienced finance and corporate governance executive, 10 years in financial markets, mainly with Paterson's Securities and as a company secretary. Stephen is a Non-Executive Director for Auric Mining Limited (ASX:AWJ) and Non-Executive Director of Star Minerals Ltd (ASX:SMS).



Tamara Barr | Company Secretary

16 years' experience as a Company Secretary and Corporate Governance Advisor to ASX listed, public and private companies and NFPs, across a variety of sectors and jurisdictions (Australia, the UK and Europe).



David Leavy | Managing Director

More than 25 years' experience in commodity markets having previously held executive roles with a number of advanced mining companies across varying commodities and jurisdictions. The last 4 years have been focused on HPA production technologies and markets.



Dr Nicholas Welham | Technical Consultant

Currently Adjunct Professor of Lithium Processing at the WA School of Mines and principal of boutique hydrometallurgical consultancy Welham Consulting. Nicholas has 50 patents granted and holds a PhD in Minerals Engineering from the Royal School of Mines, Imperial College London. Responsible for developing ChemX Materials' innovative process to produce HPA.



Mike Ware | Project Manager

B.Sc (Geology) from UNSW. Specialist in refractories and high tech ceramic materials, with 40 years experience across a range of commodities and geological settings.

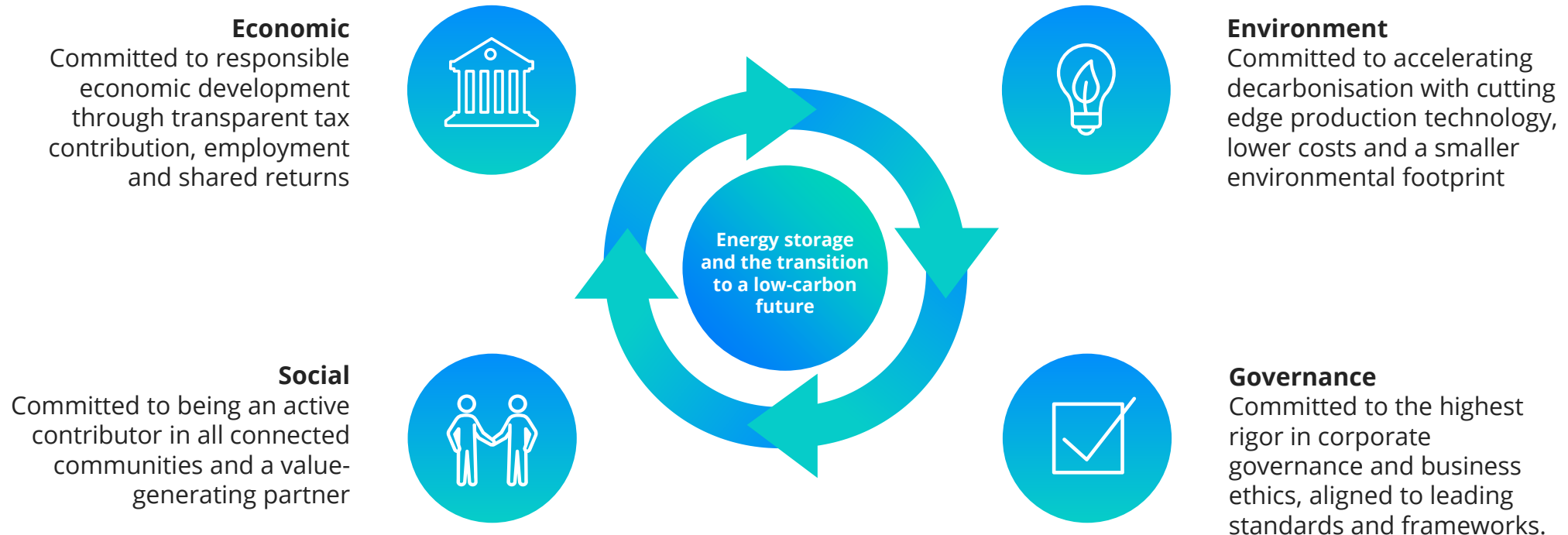
Recruiting for key appointments underway:

- Chief Operations Officer, Perth based
- Offtake/product marketing specialist
- Administration/Office Manager

ChemX key advisory team currently includes - stakeholder engagement, ESG, investor relations, engineering design & feasibility,

SUSTAINABLE DEVELOPMENT JOURNEY

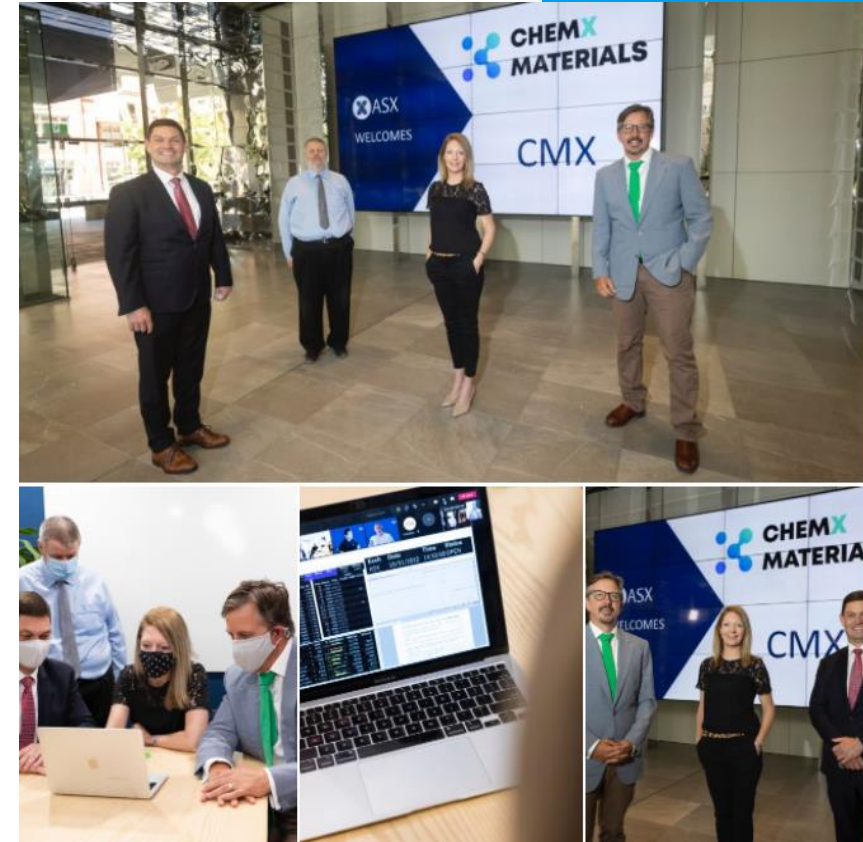
ChemX recognises that its future is intertwined with the future of the economy, society and the natural environment and commits to responsible corporate citizenship. We have the opportunity to develop out projects with ESG principles in mind from the beginning while balancing our needs with those of our stakeholders to drive positive lasting impact.



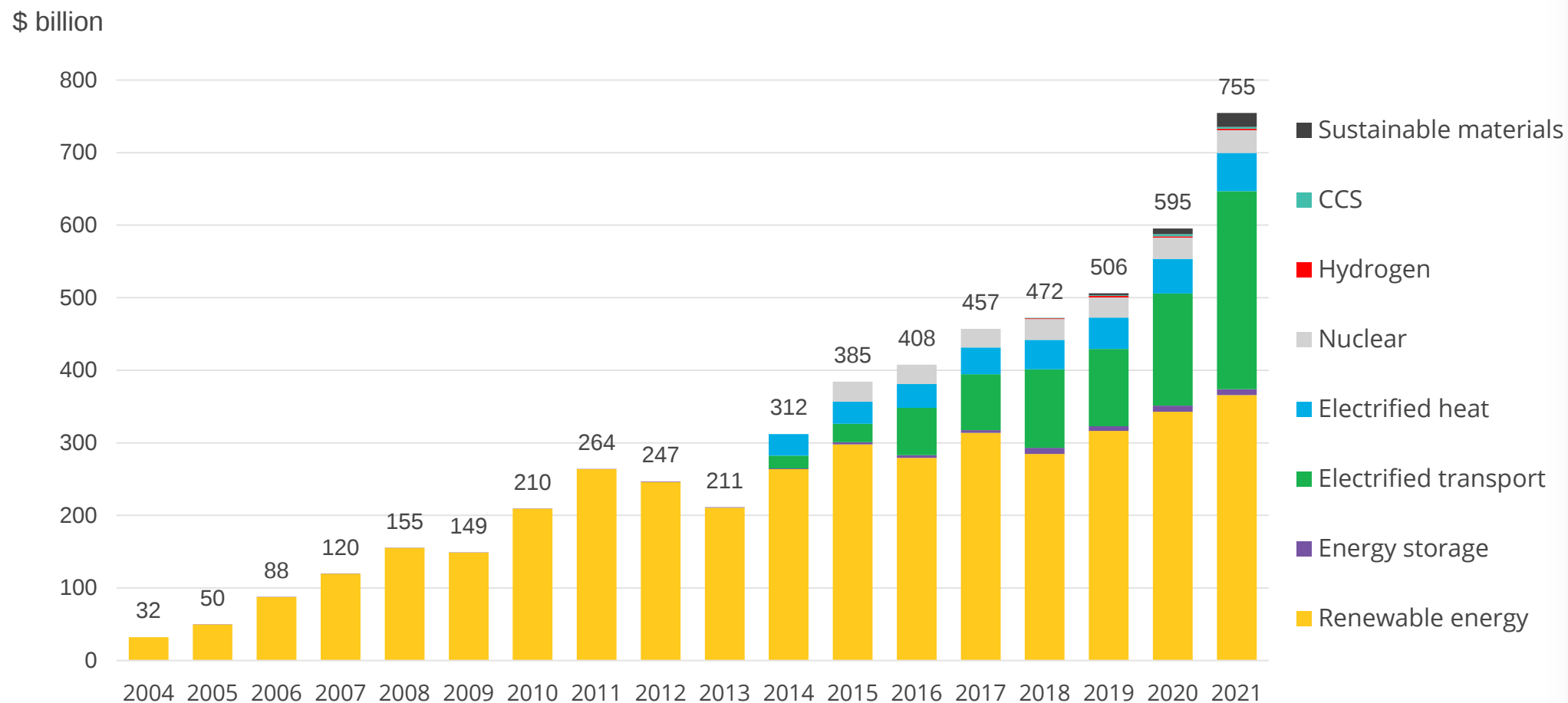
KEY ACHIEVEMENTS SINCE IPO

Following a successful \$8 mil IPO and listing on 18th January, significant progress has been made on all projects

- HiPurA™ Pre-feasibility Study started by Primero
- HiPurA™ Micro Plant constructed, commissioning to start in April
- Maiden drill program completed on Kimba Kaolin and Jamieson Tank Manganese projects
- REE's identified around the Eyre Peninsula tenements, to be assayed as part of testing program



Global investment in energy transition



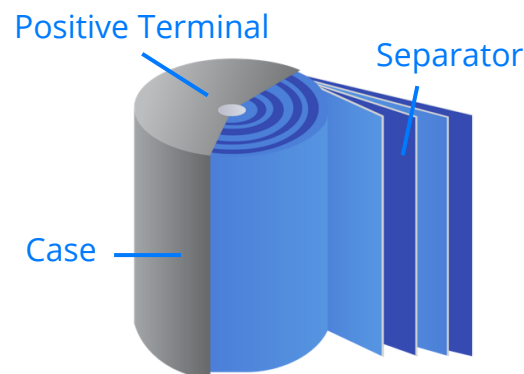
Source: BloombergNEF. Note: start-years differ by sector, but all sectors are present from 2019 onward

HPA: SURGING DEMAND, SUSTAINED SUPPLY DEFICIT

The High Purity Alumina (HPA) market is valued at US\$1.8 billion* and forecast to grow at 18%** p.a. over the next seven years, driven by demand for lithium-ion batteries, semiconductors and use in new technologies.

A Key Safety Component of Lithium-ion Batteries

- Coated on the separator, HPA provides significant additional thermal capacity
- Synthetic sapphire in semiconductor and high impact LED's & lenses (e.g. in autonomous vehicles)



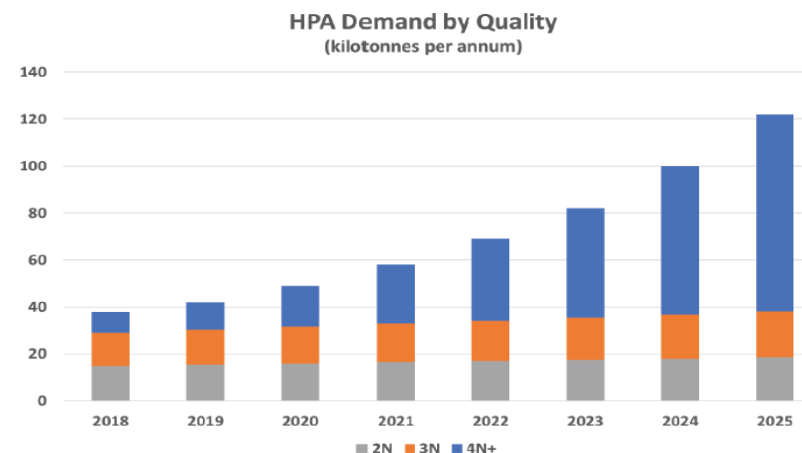
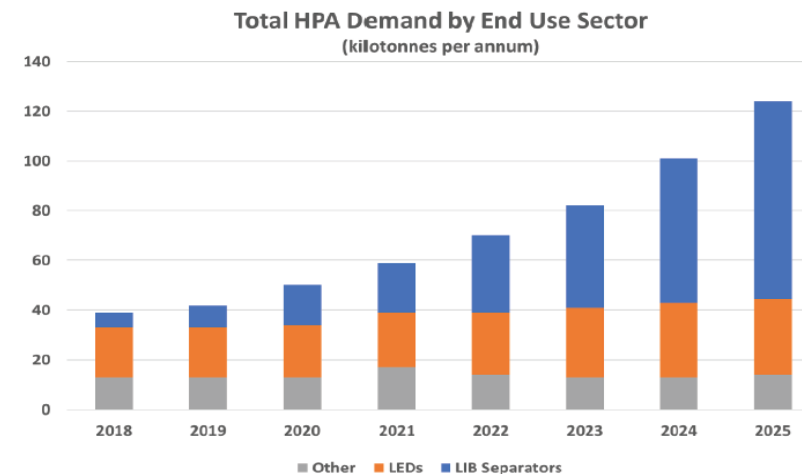
Demand growth for HPA from lithium-ion batteries market**:

26%



US\$1.8 billion HPA market forecast growth over next 7 years:

18%

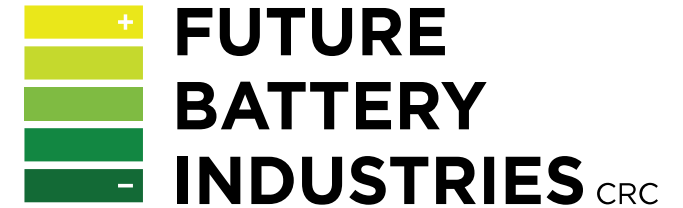
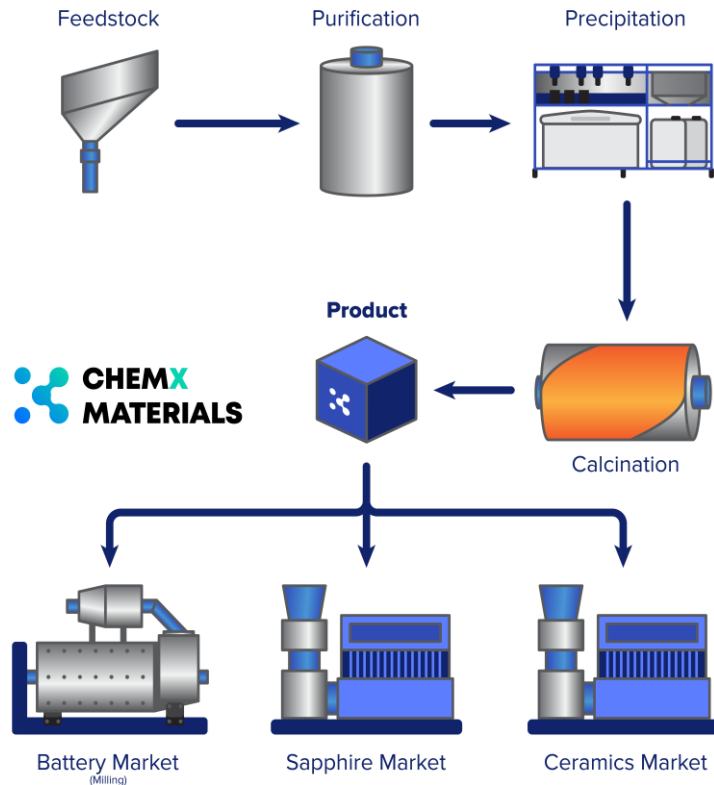


*<https://www.gminsights.com/industry-analysis/high-purity-alumina-hpa-market>

**<https://www.spglobal.com/marketintelligence/en/news-insights/blog/top-electric-vehicle-markets-dominate-lithium-ion-battery-capacity-growth>

PROGRESS ON BATTERY MATERIALS

PRIMEERO



ADVANTAGES OF HiPurA™ HPA PROCESS

HiPurA™ - Revolutionises HPA processing



Scalable

Inherently scalable with capacity to rapidly expand as demand grows



Lower Cost

Initial test work suggests low capital and operating costs



Independent of Mine Production

Feedstock is a widely available chemical



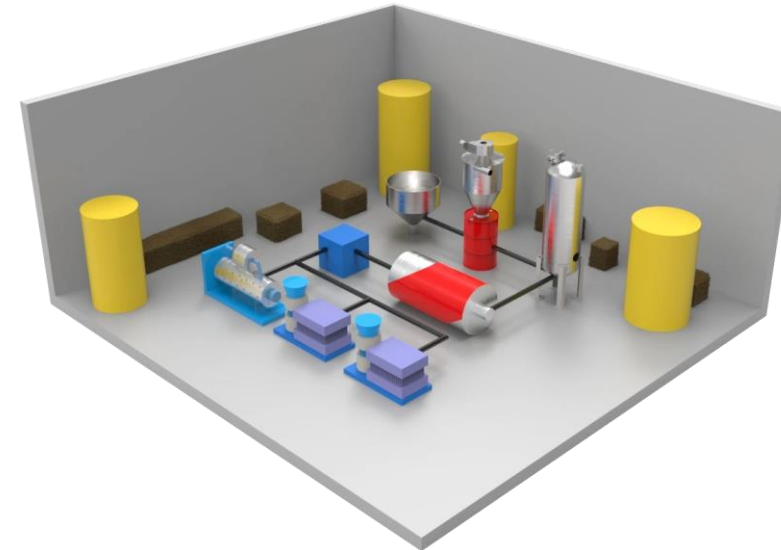
Modular

Allowing for multiple production locations close to end users



Multi-Use End Product

Able to produce various grades and products – able to meet the requirements of different end users



Micro-plant to be received early April with commissioning April/May. Capable of producing up to 5Kg per day of HPA

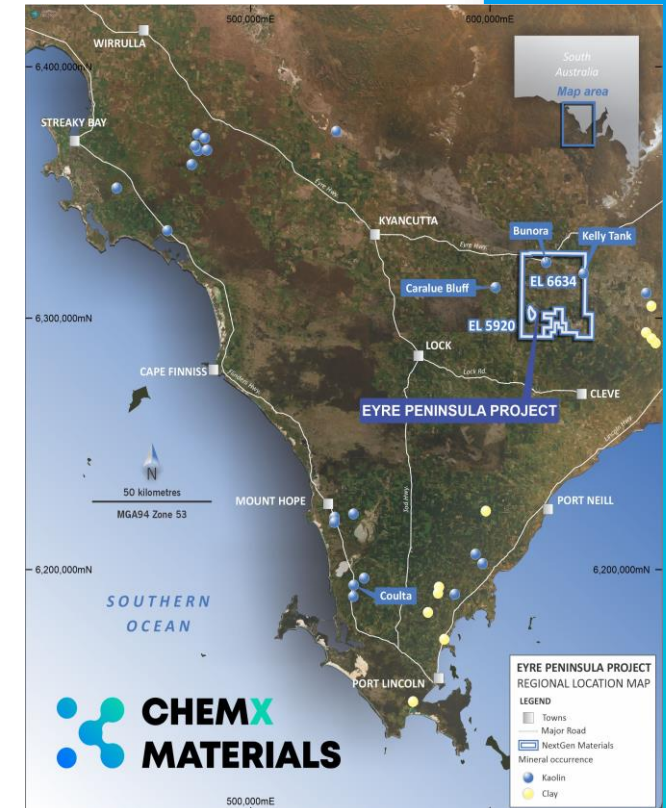
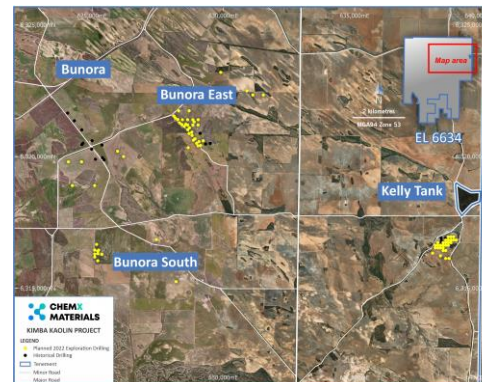
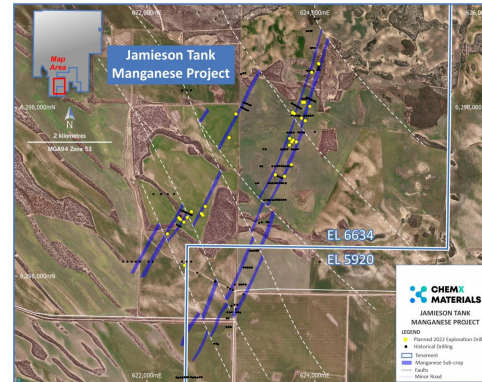
A Provisional Patent application has been lodged for the HiPurA™ HPA process

Marketing to HPA end users has commenced

EYRE PENINSULA PROJECTS

Kimba Kaolin & Jamieson Tank Manganese

- 100% owned EL6634 and EL5920 covering a total of 718 km²
- Maiden drill program completed March 2022
- Testwork program to develop a lithium battery cathode grade manganese
- Regional discovery of ionic Rare Earth Elements, to be assayed for from current drill program
- Deposits are located on freehold title, with excellent access to infrastructure

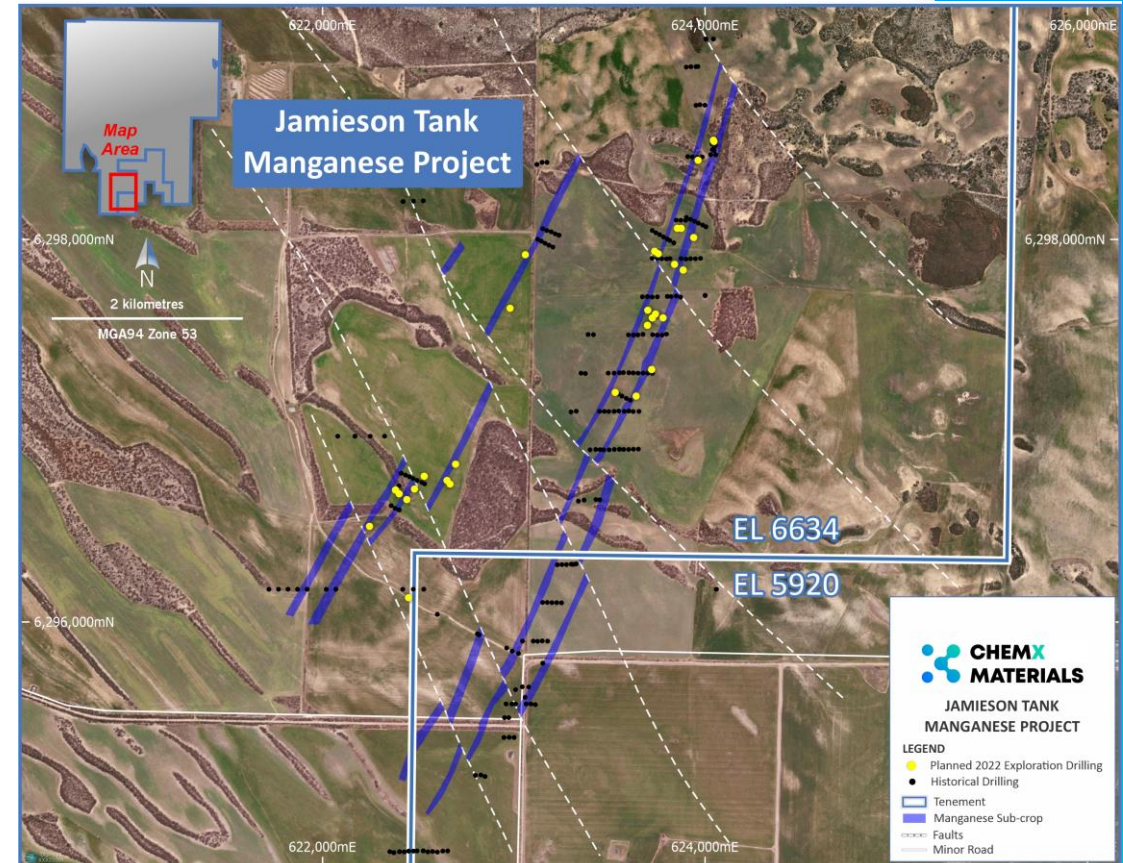


PICTURES OF PROGRESS ON EYRE PENINSULA



JAMIESON TANK MANGANESE PROJECT

- Exploration results from 208 historic drill holes show the deposit extends over a strike length of 6.6km to a depth of 100m.
- Metallurgical test work has produced a 92% manganese dioxide (EMD) material
- Test work to define the process to produce cathode grade manganese sulphate material is providing very encouraging results to date
- Drilling program completed in March 2022, samples in the lab for assaying
- Regional ionic REE discovery provides confidence of REE presence on ChemX's tenements



MANGANESE IN LITHIUM ION BATTERIES

Manganese is a critical part of the Lithium Ion Battery chemistry

Manganese use in lithium cathode chemistry is becoming increasingly important

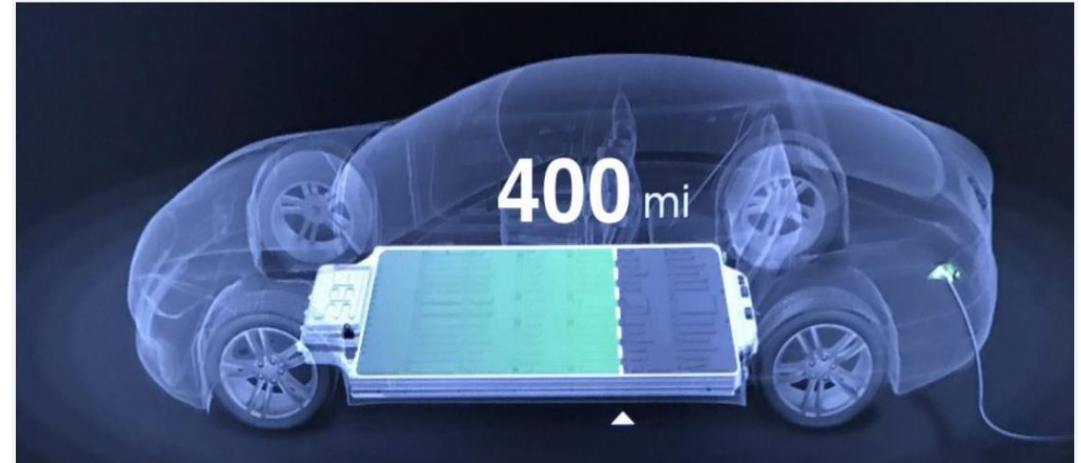
- Lithium Nickel Cobalt Manganese (NCM) batteries are becoming the preferred chemistry for EV manufacturers
- Trend to reduce cobalt use in lithium batteries requires more manganese
- Concerns over the sustainability of cobalt supply (70% of global supply comes from DRC*). The risk of supply disruptions and having sufficient supply to meet EV growth forecasts is driving the use of more manganese

ChemX has commenced test work to produce lithium battery cathode grade manganese precursor material

(*USGS Cobalt Summary 2020)

Manganese, nickel remain key to Tesla battery plans

🕒 1 year ago Resource World



<https://resourceworld.com/manganese-nickel-remain-key-to-tesla-battery-plans/>

INVESTMENT SUMMARY

ChemX is focused on the production of materials essential for energy transition and de-carbonisation technologies

HiPurA™ High Purity Alumina (HPA)

Innovative, in-house processing method to supply the lithium-ion battery, LED & semiconductor industries



Micro-plant delivered early April with commissioning over April/May



Pilot plant pre-feasibility study, engineering and construction



Cathode precursor materials study to produce aluminium sulphate and aluminium nitrate

Eyre Peninsula Project

Kaolin and Manganese (Mn), to de-carbonise industrial processes and supply cathode precursor material for lithium-ion batteries



Testing of kaolin currently underway to de-carbonise an industrial process



Test work program to produce battery grade manganese materials progressing well



Maiden drill program on Kimba Kaolin project and Jamieson Tank Manganese project completed March 2022



MATERIALS FOR A HIGH TECH WORLD

High Purity Alumina (HPA) for battery technologies

Critical materials for electrification and carbon reduction

