MATERIALS FOR A HIGH TECH WORLD

May 2022
ASX: CMX
IMPORTANT INFORMATION

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This presentation contains no new information to the market.
Applying Commercialising Technology and Innovation to Drive Sustained Shareholder Value

Critical materials for electrification and carbon reduction

High Purity Alumina (HPA) and Manganese for battery technologies

Our Foundation Assets

HiPurA™ High Purity Alumina

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

Eyre Peninsula Projects

Developing cathode precursors and materials required to decarbonise industrial processes – manganese, kaolin, halloysite and rare earths – assaying underway.
CHEMx – WHERE WE PLAY

“Ten families of climate technologies can play important parts in mitigating carbon emissions.”

- Batteries and Energy Storage
- Building Technologies
- Industrial-process Innovation
- Renewables
- Circular Economy
- Hydrogen
- Agriculture and Food
- Sustainable Fuels
- Nature-based Solutions
- Carbon Removal, Capture and Storage

Markets we are already in
Markets we are targeting from current projects

mckinsey.com/delivering-the-climate-technologies-needed-for-net-zero
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.

**Economic**
Committed to responsible economic development through transparent tax contribution, employment and shared returns

**Environment**
Committed to accelerating decarbonization with cutting edge production technology, lower costs and a smaller environmental footprint

**Social**
Committed to being an active contributor in all connected communities and a value-generating partner

**Governance**
Committed to the highest rigor in corporate governance and business ethics, aligned to leading standards and frameworks.

**Energy storage**
and the transition to a low-carbon future
Following a successful $8m IPO and listing in January 2022, significant progress on ChemX’s foundation project

- HiPurA™
  - PFS underway by Primero
  - Micro Plant delivered to location in Perth, set-up and commissioning underway

- Eyre Peninsula
  - Maiden drill program completed on Jamieson Tank Manganese and Kimba Kaolin projects – assaying underway
  - Rare earths mineralisation identified around tenements – to be assayed as part of testing program

- Marketing
  - Engagement with industry groups and potential customers globally

- Corporate
  - ChemX team capability being built
HiPurA™ – OUTSTANDING MARKET CONDITIONS

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

Smith & Power 2021
HiPurA™ - COMPETITIVE ADVANTAGE

The HiPurA™ Advantage - Revolutionising 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

The micro-plant has been received, 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
HiPurA™ - NEXT STEPS

DEVELOPMENT PATH FOR HiPurA™ HPA PROCESS

Microplant delivered

Primero appointed for Pilot Plant Prefeasibility

Micro Plant Commissioning

Produce 99.99% Al₂O₃

Prefeasibility Study completion

Pilot Plant Construction

HPA Marketing to Li Battery and Sapphire markets

Product testing and qualification process

MOU’s and Offtakes
• 100% owned EL6634 and EL5920 covering a total of 718 km² on freehold title
• Excellent access to modern infrastructure

**Jamieson Tank Manganese**
• Maiden drill program completed March 2022
• Test work program underway to develop a lithium battery cathode grade manganese sulphate

**Kimba Kaolin – Halloysite**
• Known, high-quality kaolin mineralisation

**Rare earths**
• Regional discovery of ionic Rare Earth Elements, to be assayed for from current drill program
Aggressive exploration program commenced
• Exploration results from 208 historic drill holes show the manganese deposit extends over a strike length of 6.6km to a depth of 100m.

• Metallurgical test work by previous tenement holder 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 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**

https://resourceworld.com/manganese-nickel-remain-key-to-tesla-battery-plans/
JAMIESON TANK MANGANESE - NEXT STEPS

- Maiden drilling campaign
- Assay results to be received
- Follow-up exploration based on assay results
- Manganese Scoping Study
- Manganese Sulphate test work
- Produce cathode grade material
- Define production flowsheet
Maiden drilling program completed in Q1 2022 over three known mineralised areas and one new area

Analysis currently underway to identify quality of kaolin and applicable markets

Research into new markets for kaolin to replace high CO₂ materials in industrial process currently underway

Identification of applicable kaolin / halloysite markets ongoing

Research into the many potential uses for halloysite to identify high value and high impact markets
Kaolin has growing uses in decarbonising processes as well as many traditional markets

**Kaolin markets**

- Kaolin is a USD4.17 Bil market, growing at around 5.1% pa*, meaning an additional 1 mtpa is needed every year.
- ChemX is developing a kaolin product for use in cement to reduce carbon emissions from the cement manufacturing process.
- Halloysite is ideally suited to many decarbonisation and technology processes:
  - Hydrogen, oxygen, CO₂ and GHG capture and storage
  - Slow release pharmaceuticals and fertilisers

*ChemX has an aggressive exploration and testwork plan to work with users in the development of kaolin and halloysite materials for a sustainable future.*

(* https://www.fortunebusinessinsights.com/kaolin-market-102352)
Testing for industrial replacement opportunities
Identification of applicable high value markets
Maiden drilling campaign
Assay results to be received
Follow-up exploration based on assay results
Halloysite identification test work
Kaolin Scoping Study
ACCELERATING CHEMX MOMENTUM

EXPECTED NEWSFLOW OVER THE NEXT 12 MONTHS

- HiPurATM Micro Plant commissioning
- Produce 99.99% Al₂O₃
- HiPurATM Pilot Plant Prefeasibility
- HiPurATM Pilot Plant Construction
- Assays for Manganese, Kaolin & REE
- Follow-up exploration program
- High Purity Manganese Sulphate testwork

HiPurATM & Eyre Peninsula next step
BOARD & MANAGEMENT

Kristie Young | Non-Executive Chair
20+ years’ experience across mining, engineering, project evaluation, professional services (EY & PwC), executive search, business development & advisory, technology & other sectors. Non-Executive Director of Lithium Australia NL (ASX:LIT), Tesoro Resources Ltd (ASX:TSO); Board member Wesley College WA.

Warrick Hazeldine | Non-Executive Director
20+ years’ experience across capital markets and strategic communications. Co-founder of advisory firm Cannings Purple. Non-Executive Chair of Global Lithium Exploration Ltd (ASX:GL1); Director of Surfing WA.

Stephen Strubel | Executive Director
10+ years’ experience in finance and corporate governance. Senior role with Patersons Securities and Company Secretary for ASX-listed companies. Executive Director and Company Secretary for Auric Mining Limited (ASX:AWJ); Non-Executive Director of Star Minerals Ltd (ASX:SMS).

Tamara Barr | Company Secretary
16 years’ experience as a Company Secretary and corporate governance adviser to ASX-listed and private companies and NFPs across a variety of sectors in Australia and Europe.

David Leavy | Managing Director
25+ years’ experience in commodity markets. Past roles as senior executive in advanced mining companies across varying commodities and jurisdictions. Executive focus over past four years HPA production technologies and markets.

Dr Nicholas Welham | Technical Consultant
30+ years experience in minerals processing. Adjunct Professor of Lithium Processing at the WA School of Mines and Principal of boutique hydrometallurgical consultancy Welham Consulting. Has 50 patents granted and holds PhD in Minerals Engineering from the Royal School of Mines, Imperial College London. Responsible for developing ChemX innovative process to produce HPA.

Mike Ware | Project Manager
40+ years experience across a range of commodities and geological settings. B.Sc. (Geology) from UNSW and specialist in refractories and high-tech ceramic materials.
INVESTMENT SUMMARY

Applying Commercialising Technology and Innovation to Drive Sustained Shareholder Value

Massive investment in energy transition and decarbonisation technologies

Demand for new and innovative materials

Ability to operate along the value chain

Commissioning HPA micro-plant

Kaolin, Halloysite and REE

Manganese
MATERIALS FOR A HIGH TECH WORLD

THANK YOU

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ASX: CMX
APPENDIX - CORPORATE SNAPSHOT

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<tr>
<th>Shareholders</th>
<th>12.8%</th>
<th>13.8%</th>
<th>16.1%</th>
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<td>Institutional</td>
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<td>High Net Worth</td>
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<td>Board/Management</td>
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Daily Share Price Graph as at 27 April

ASX : CMX (as at 27 May 2022)

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
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<td>Ordinary Shares</td>
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<td>Options</td>
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<td>Market Cap (share price $0.235)</td>
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<tr>
<td>Cash (as at 31 March 2022)</td>
<td>$6.64 mil</td>
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<tr>
<td>Debt as at 31 March '22</td>
<td>Nil</td>
</tr>
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For the industrial economy to meet net-zero emissions by 2050, capital spending over the next three decades would need to increase from the $US5.7 trillion spent annually today to $US9.2 trillion.

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