

Presentation to the Critical Minerals & Energy Investment Conference

Presenter: Scott Winter, Managing Director

4 March 2024

ASX:CMG

Important Information



Critical Minerals Group Limited ACN 652 994 726 (CMG or the company) is the issuer of this presentation.

Securities Disclaimer

This presentation is for informational purposes only and does not constitute an offer to sell, or solicit to purchase, any securities.

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No Recommendation

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JORC Statement

The information in this presentation relating to Mineral Resources is extracted from the company's ASX announcement titled 'Lindfield Vanadium Project Delivers Improved Mineral Resources Estimate with Grade and Tonnage to World Class Scale' dated 16 May 2023 which is available to view on www.asx.com.au. The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

Production targets and forecast financial information

The information in this presentation that relates to production targets and forecast financial information derived from a production target is extracted from the company's ASX announcement dated 9 November 2023 ("Revised release of Scoping Study results") available to view at www.asx.com.au (Scoping Study Announcement). The company confirms that all material assumptions underpinning the production targets and forecast financial information derived from production targets set out in the Scoping Study Announcement continue to apply and have not materially changed.

Scoping Study cautionary statement

The Scoping Study referred to in this presentation is based on the Scoping Study released by the company to ASX in the Scoping Study Announcement.

The company advised that the Scoping Study has been undertaken to consider the development of the Lindfield Vanadium Project. It is based on low-level technical and economic assessments that are not sufficient to support the estimation of ore reserves. Further evaluation work and appropriate studies are required before the company will be in a position to estimate any ore reserves or to provide an assurance of an economic development case. There is a low level of geological confidence associated with any Inferred Mineral Resources, and there is no certainty that further exploration work will result in the determination of Measured or further Indicated Mineral Resources or that the Production Schedule or preliminary economic assessment will be realised.

The Scoping Study is based on the material assumptions outlined in the Scoping Study Announcement. These include assumptions about the availability of funding. While the company considers all of the material assumptions to be based on reasonable grounds, there is no certainty that they will prove to be correct or that the range of outcomes indicated by the Scoping Study will be achieved.

Important Information



To achieve the range of outcomes indicated in the Scoping Study, additional funding will be required. The company has a supportive shareholder base and has successfully raised capital to progress the project in the past. However, investors should note that there is no certainty that the company will be able to raise the amount of funding required to develop the project when needed. It is also possible that such funding may only be available on terms that may be dilutive or otherwise affect the value of the company's existing shares. It is also possible that the company could pursue other 'value realisation' strategies such as a sale, partial sale or joint venture of the Lindfield Vanadium project. If it does, this could materially reduce the company's proportionate ownership of the project.

The Scoping Study results contained in this presentation relate solely to the Lindfield Vanadium project and do not include Exploration Targets or Mineral Resources defined elsewhere. The company has concluded it has a reasonable basis for providing the forward-looking statements included in this presentation.

Given the uncertainties involved, investors should not make any investment decisions based solely on the results of the Scoping Study.

Forward Looking Statements

This presentation contains 'forward-looking statements' that are based on the company's expectations, estimates and projections as of the date on which the statements were made. These forward-looking statements may include, among other things, statements with respect to prefeasibility and definitive feasibility studies, the company's business strategy, plans, development, objectives, performance, outlook, growth, cash flow, projections, targets and expectations, mineral reserves and resources, results of exploration and related expenses. Generally, this forward-looking information can be identified by the use of forward-looking terminology such as 'outlook', 'anticipate,' 'porject', 'target', 'potential', 'likely', 'believe', 'estimate', 'expect', 'intend', 'may', 'would', 'could', 'scheduled', 'will', 'plan', 'forecast', 'evolve' and similar expressions. Persons reading this presentation are cautioned that such statements are only predictions, and that the company's actual future results or performance may be materially different. Forward-looking statements are subject to known and unknown risks, uncertainties and other factors that may cause the company's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information. Forward-looking information is developed based on assumptions about such risks, uncertainties and other factors set out herein. The forward-looking statements included in this presentation speak only as of the date of this presentation. Except where required by law or the ASX Listing Rules, the company does not intend to update or revise the forward-looking statements in this presentation in the future.

Limited Responsibility for Information

CMG makes no representation about the likelihood of a matter, about which a forward looking statement is made, occurring. CMG and its directors, employees, agents, advisers and consultants give no representation or warranty to a recipient of this presentation as to the accuracy or completeness of the statements contained in this presentation or in relation to any other matter; and to the full extent permitted by law, disclaim responsibility for and have no liability to a recipient of this presentation for any error or omission in or for any statement in this presentation.

Competent Person Statements

The information above that relates to Mineral Resource estimates is based on, and fairly represents, information compiled by Adrian Buck, a Competent Person, who is a Member of the Australiasian Institute of Mining and Metallufyay (AusIMM). Adrian Buck is the Principal Geologist – Australia for John T Boyd Company, Adrian Buck has sufficient experience with the style of mineralisation and type of deposit under consideration, and to the activities undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australiasian Code for Reporting of Exploration Results, Exploration Targets, Mineral Resources and Ore Reserves'. Adrian Buck consents to the inclusion of the matters based on their information in the form and context in which it appears. The information above that relates to metallurgy and metallurgical test work is based on, and fairly represents, information compiled by Nicola Semler, a Competent Person, who is a Member of the Australasian Institute of Mining and Metallurgy (AusIMM). Nicola Semler is the Metallurgist and Chief Technical Officer – CMG. Nicola Semler has sufficient experience with the style of mineralisation and type of deposit under consideration, and to the activities undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Resporting of Exploration Results, Exploration Targets, Mineral Resources and Ore Reserves'. Nicola Semler consents to the inclusion of the matters based on their information in the form and context in which it appears. The information above that relates to mining engineering and mine planning is based on, and fairly represents, information compiled by Gary Benson. Mr Benson BE is a Mining Engineer with 40 years of experience and is a Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM). Mr Benson has sufficient experience, which is relevant to the style of mineralisation, geology and type of deposit under consideration and to the activity being undertaken to qualify as a competent

The information in this announcement that relates to the exploration results, exploration targets and mineral resources for the Company's Lindfield Vanadium Project was first reported by the Company in the Company's prospectus dated 25 May 2022 and ASX announcements dated 27 February 2023, 13 March 2023 and 16 May 2023. The Company confirms that it is not aware of any new information or data that materially affects the exploration results, exploration targets and mineral resources, and that all material assumptions and technical parameters underpinning these continue to apply and have not materially changed. Where the Company refers to exploration results or mineral resources 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 exploration results or mineral resources 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.

About CMG



Purpose

To support global communities through an energy transition that will deliver a more sustainable and responsible future.

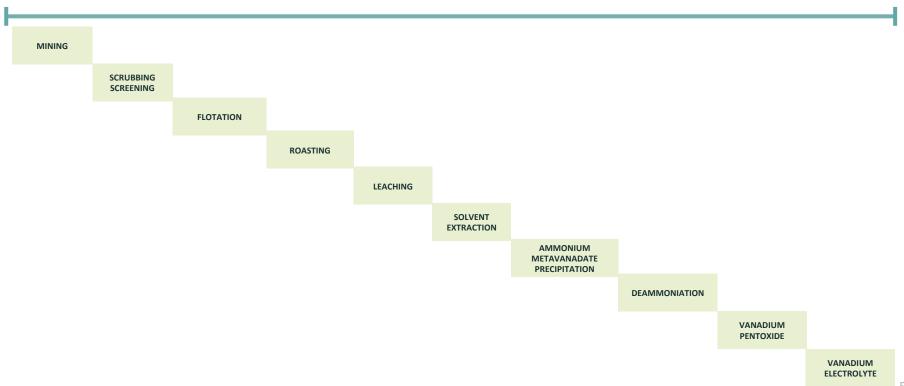
Vision

To be a leading high-quality manufacturer of vanadium battery products for the energy storage market and deliver responsible and robust returns.

About CMG



Critical Minerals Group Process



About CMG



Critical Minerals Group Process

Battery Manufacture Process

End to End Vanadium Redox Flow Battery Process





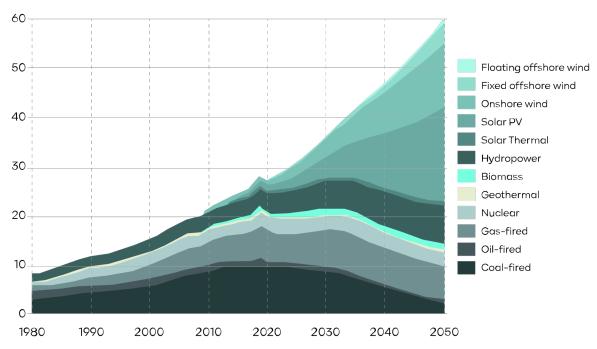


Figure 5 World Electricity generation by power station type PWh/yr





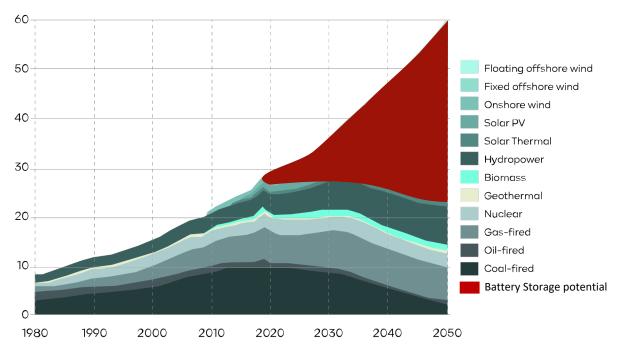
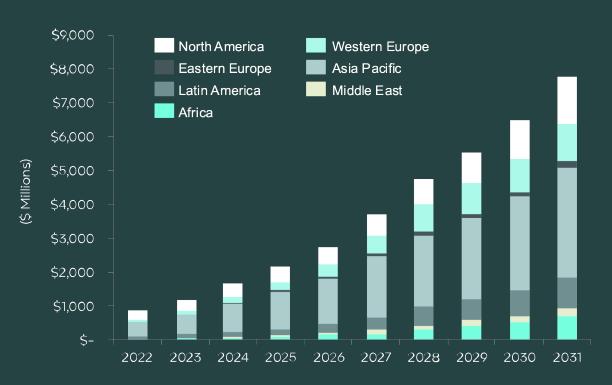


Figure 5 World Electricity generation by power station type PWh/yr

Annual Installed VRFB Utility-Scale and Commercial and Industrial Deployment Revenue by Region





(Souce: Guidehouse Insights)

Government investment in the Path to Net Zero 2050



CMG is seeking to leverage the significant grants and incentives put in place to develop domestic production of vanadium, particularly for use in Vanadium Batteries as a grid-scale energy solution

CopperString 2032 Transmission Line Project

\$5.0bn project

to run from a substation on the Ross to Strathmore transmission line located south of Townsville to a substation near Cloncurry and then onwards to Mount Isa.

National Battery Testing Centre (NBTC)

\$50m project and \$15m funded

(QLD Gov). NBTC will look at Vanadium flow battery development & standards.

Vanadium Demonstration Plant

\$70m Fully funded

(QLD Gov) to build plant in Townsville, EPC awarded to Sedgman.

Battery Manufacturing Queensland \$100m

Federal government commitment to develop battery manufacturing in QLD

Vanadium Processing Pilot Plant \$1.265m grant

(Federal Gov) **awarded** to Brisbane Met Labs

Global Demand

Vanadium Batteries

Globally there are currently **today**, 7.4GWh of vanadium batteries planned or under construction, requiring approximately 65,000t of vanadium pentoxide.

"There is potentially \$500 billion dollars of critical minerals in the North West Minerals Province and vanadium is one of the commodities Queensland can supply to the world."

- Resources Minister and Townsville MP Scott Stewart

Global Vanadium Reserves Russia 19.6% Est. Global Vanadium Metal China Reserves 37.2% 63m South Africa Australia 13.7% 28.9% Source: U.S. Geological Survey, mineral commodity summaries. January 2022

Local Vanadium Deposits



China **37.2%**

Australia 28.9%

Russia 19.6%

South Africa 13.7%

 With 28.9% of total global Vanadium contained in Australia, Queensland holds 48.9%* of the total Australian deposit

 Queensland has a vast and economic source of vanadium and a new secure, safe and accessible supply chains to provide vanadium electrolyte for vanadium batteries. Queensland 48.9%*

Successful Scoping Study 9 Nov 2023

Harnessing High-Grade, Low Strip Ratio, Long-Life Vanadium Assets to assist in Queensland's commitment to a Sustainable Future



The Lindfield Vanadium Project Highlights

Vanadium and High-Purity Alumina (HPA)



Positive Scoping Study²

Vanadium Project has both the practical and financial attributes to potentially develop a successful 4 million tonne per annum ROM vanadium mine producing vanadium pentoxide.

Ideal Location

Located in rich vanadium mineral zone, close to infrastructure, services, and other advanced mines. Located close to Julia Creek, main highway and rail, power and water.

Vanadium Electrolyte for Batteries

Strategy is to manufacture electrolyte for vanadium batteries and processing results to date indicate we are on the pathway to electrolyte production.

Regulatory

State and federal governments engaged in Approvals pathways.

Large Scale Resource¹

Lindfield Resources of 363 Mt @0.43% V_2O_5 , includes Indicated Resource of 104 Mt @ 0.48% V_2O_5 in oxidised zone which is showing good recoveries. Large-scale operational opportunity.

HPA Secondary Product

Potential for HPA production as part of the vanadium processing operations. Used for Lithium battery separator, LED's, Sapphire glass.

^{1 -} Refer ASX Release - "Resource Upgrade" -16 May 2023

^{2 -} Refer ASX Release - "Revised Release of Scoping Study Results" - 9 November 2023

Lindfield Vanadium Project in numbers



4 Million Tonnes

The Project has the practical and financial attributes to potentially develop a successful 4 million tonne per annum ROM vanadium mine.

\$400m Capital Cost

Estimated direct capital costs (excluding indirect costs, EPCM, owners' costs and contingency).

\$510m NPV

Assuming USD\$9.50 / Ib 98.5% V_2O_5 , USD\$57.5 / kg 99% MoO₃ , FX of \$0.68 and Royalty Rate 2.5%).

17% IRR

Potential after-tax IRR of approximately 17%, from the vanadium pentoxide and molybdenum trioxide products streams.

Long Mine Life

With the opportunity to expand LOM with potential upside in Resource subject to further evaluation.

Additional HPA

Has also been confirmed as a potential product providing future upside for the project subject to further evaluation and modelling.



62MWh Vanadium Battery

8,600

West End Homes

~250,000 tonnes Vanadium pentoxide ore

620 tonnes V_2O_5

~6,800 tonnes electrolyte

Brisbane

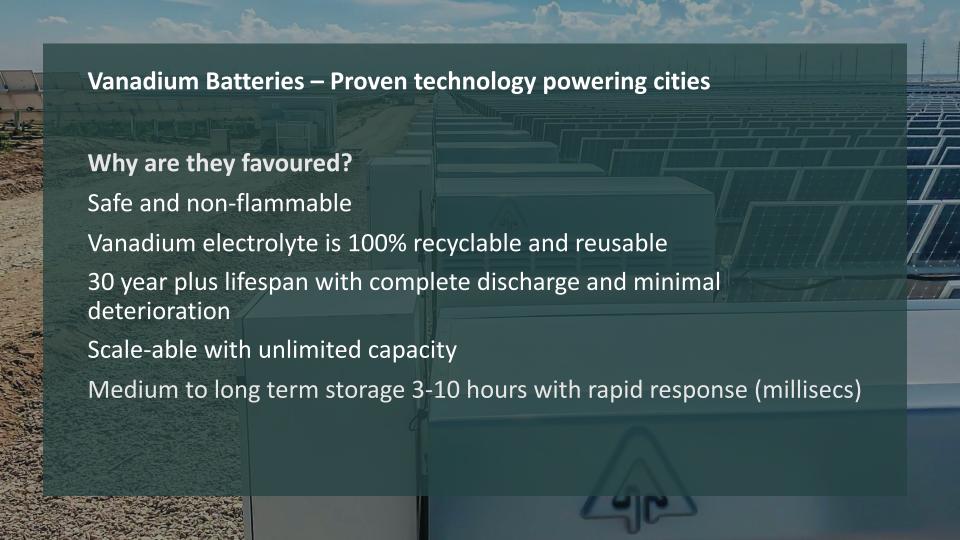




Vanadium Batteries – Proven technology powering cities Why are they favoured? Safe and non-flammable Vanadium electrolyte is 100% recyclable and reusable











Aiming to meet the growing demand for minerals to achieve a **Carbon Neutral Future.**





CMG Environmental, Social and Governance Policy is centred around four key principles

01

Ethics and Accountability

- Ethical values
- Trust
- Stakeholder Respect and Engagement



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Mineral Traceability

- Supply Chain
- Chain of Custody



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- Traditional Owners

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Environmental Management

- Resource Optimisation and Site rehabilitation
- Water Management
- Energy Efficiency

Milestones Achieved to Date

In Advancing Towards Production



2023

✓ Commencement of metallurgical testwork

- √ Complete initial metallurgical testwork
- √ Complete scoping study
- ✓ Drilling bulk sample collection

Q1

Q3

Q2

√ Commencement of scoping study

Q4

- √ Pilot Plant preparatory test work and planning
- ✓ Approvals Strategy
- √ Feasibility Study review
- √ Technology license with Lava Blue
- √ Scoping Study results
- √ Reviewing partners for next phase of feasibility study
- √ Commencement of environmental study works
- **✓** Commenced engagement with Director General's Office

Strategic Direction

Strong Developments Going Forward

2024 Targets

- Vanadium Electrolyte manufacturing strategy
- Commence Queensland Critical Minerals and Battery Technology Fund grant application
- Completion of pre-feasibility study Lindfield Project
- Continue environmental study works
- > Explore additional grant and R&D support opportunities
- Exploring potential collaboration and partnership agreements on development infrastructure
- Completion of Pilot Plant construction and commencement of processing test work
- Upgrading JORC Mineral Resource Estimate with the addition of TLB-A mineralisation

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Board of Directors & Executive Leadership Team





Alan Broome. AM Chairman

- Extensive Mining & Board experience
- · Emeritus Chairman of Austmine
- Chairman of Strategic Minerals Plc (AIM:SML.L)
- Advisory Council to the CSIRO's Mineral Resources Sector
- Chairman of New Age Exploration (ASX:NAF)
- Awarded the Order of Australia (AM) for services to mining



Scott Winter Managing Director

- 30 years of experience working across large scall projects in the resource sector.
- Bachelor of Engineering Mining (Honours), a Graduate Diploma
 Applied Finance and an MBA from Melbourne Business School.
- Previous roles include Chief operation officer for Mineral Resources Ltd (ASX:MIN)



Art Malone
Non-Exec Director

- Senior Energy and Resources Executive.
- 15 years managing large scale projects in the resource sector.
- Managing Director of Graphinex



Steve Kovac
Non-Exec Director

- More than 20 years of experience in the mining sector, with 15 years in senior management and executive level roles
- A degree qualified mining engineer (BE (Mining) Hons) who also holds an MBA (Exec) from the Australian Graduate School of Management
- CEO of Idemitsu Australia Pty Ltd, with Directorships in the following organisations:
- Delta Lithium Ltd
- Vecco Group Pty Ltd
- Low Emissions Technology Australia Ltd
- A graduate of the Australian Institute of Company Directors, a Fellow of the Australian Institute of Mining and Metallurgy and a member of the Mine Managers Association of Australia



Stuart McClure
Non-Exec Director

- Senior finance executive with 17 years experience.
- Corporate adviser to public and unlisted companies.
- CEO Vested Equities
- Executive Chairman of CopperX Ltd an unlisted Copper exploration project
- · Executive Chairman Charged Minerals
- Bachelor of Business

Investment Highlights



Solid Investor Group

Significant institutional ownership and tightly held register across founders and directors.

Government Support

Federal and State governments supporting CMG and adjacent companies as key participants in Target Net Zero by 2050.

Significant Upside

opportunity in the mid stream Vanadium Electrolyte manufacturing for Vanadium batteries which is currently being investigated.

Vast Opportunity

Additional tenements providing the potential for short term financial gain with longer term upside opportunities.

World Class Asset

World class vanadium asset with upside in resource and additional mineral value – HPA, other valuable by-products.

Experienced Board & Management

Technical, construction and operations supported by complementing board skills, motivated to drive strategy.

Get in touch

CRITICAL MINERALS GROUP

