



**CRITICAL  
MINERALS  
GROUP**

# Noosa Mining Conference

PRESENTER:

Scott Winter, Managing Director

July 17<sup>th</sup> 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.

## Reliance on Presentation

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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 'Significant Increase to Mineral Resource Estimate' dated 10 May 2024 which is available to view on [www.asx.com.au](http://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](http://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 a preliminary technical and economic study of the potential viability 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.

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', 'project', 'target', 'potential', 'likely', 'believe', 'estimate', 'expect', 'intend', 'may', 'would', 'could', 'should', '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 Boyd, a Competent Person, who is a Member of the Australasian Institute of Mining and Metallurgy (AusIMM). Adrian Boyd is the Principal Geologist for Measured Group. Adrian Boyd 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 Reporting of Exploration Results, Exploration Targets, Mineral Resources and Ore Reserves'. Adrian Boyd 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 Reporting 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 person under the 2012 edition of the Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves (the JORC Code, 2012); Mr Benson is an Associate of Measured, is independent of CMG; and consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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 22 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.

**WE ARE IN A STRONG POSITION**

**VISION & STRATEGY**

**MARKET DEMAND**

**RESOURCES**

**PEOPLE & PARTNERS**

VISION & STRATEGY

MARKET DEMAND

RESOURCES

PEOPLE &  
PARTNERS



## WITH A CLEAR PURPOSE AND VISION

### 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.

OUR STRATEGY WILL ENSURE

**We have**

**Secure and  
Efficient Supply**

with a steady and reliable  
flow of resources.

**We add value with**

**Downstream  
Manufacturing**

in our advanced electrolyte  
facilities, HPA production, and  
molybdenum processing.

**We are**

**Market Leaders**

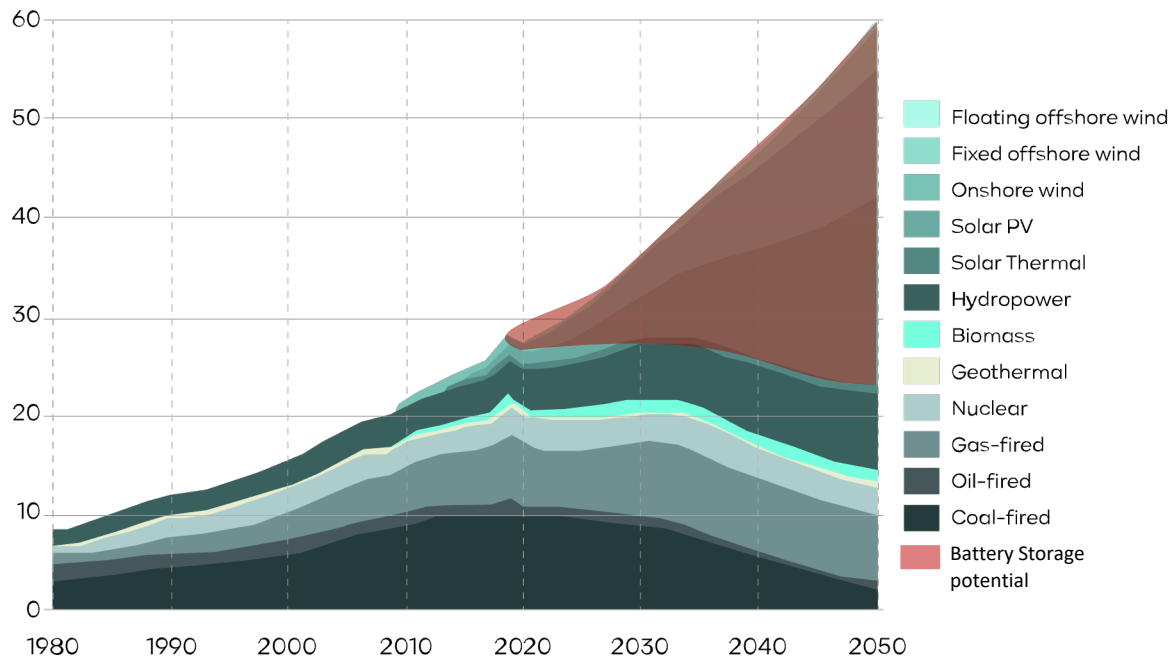
setting the industry standard  
with quality, reliable products.

**We are committed to**

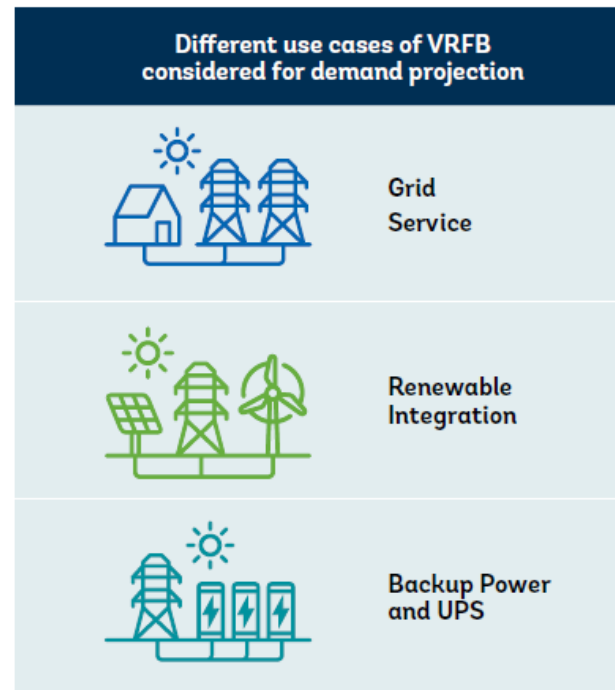
**Sustainable  
Delivery**

by centering environmental  
and social responsibility.

# A GLOBAL ENERGY TRANSITION DRIVING MARKET DEMAND FOR STORAGE



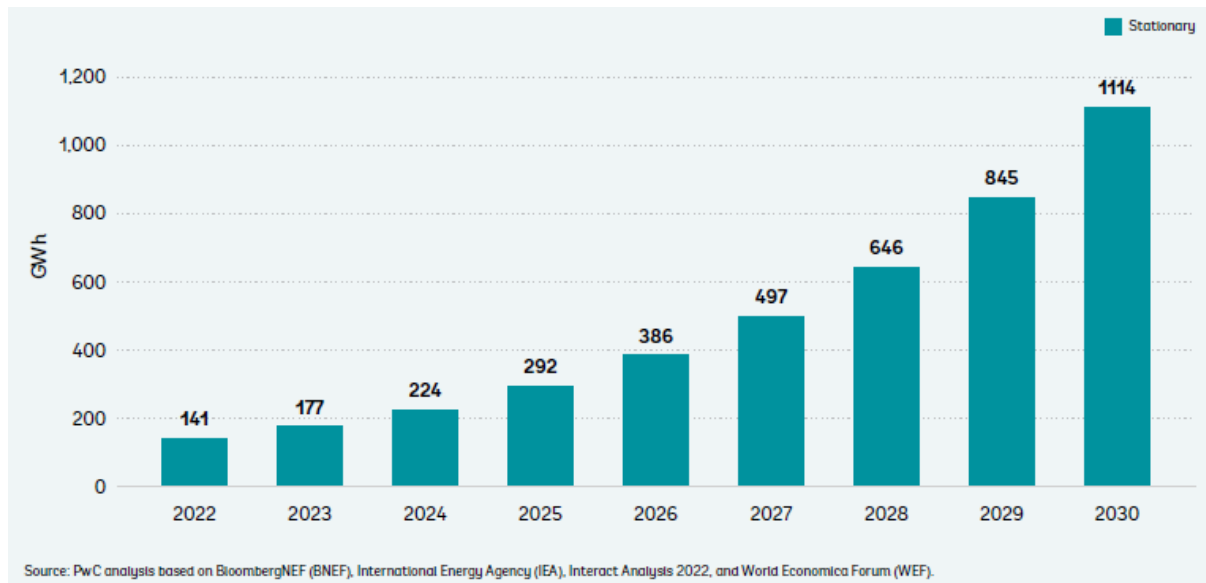
*Figure 5 World Electricity generation by power station type PWh/yr*



Source: PwC Analysis

# UNSTABLE RENEWABLE ENERGY REQUIRING LONG DURATION STORAGE

## GLOBAL STATIONARY APPLICATION - ENERGY STORAGE MARKET



Source: World Bank Group [Circular Business Model for Vanadium Use in Energy Storage \(worldbank.org\)](https://www.worldbank.org)<sup>6</sup>

# GOVERNMENTS INVESTING IN THE ENERGY TRANSITION

CMG is leveraging the grants and incentives aimed at supporting vanadium electrolyte manufacturing...

## 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

<https://statements.qld.gov.au/statements/99762>



# DEVELOPING A WORLD CLASS RESOURCE WITH UPSIDE

## 4 Million Tonnes

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

## Optionality

Vanadium Pentoxide  
High Purity Alumina (HPA), and  
Molybdenum (Mo)

## Positive Scoping Study<sup>2</sup>

Feasibility Study underway  
Pilot Plant about to commence

## Large Scale Resource<sup>1</sup>

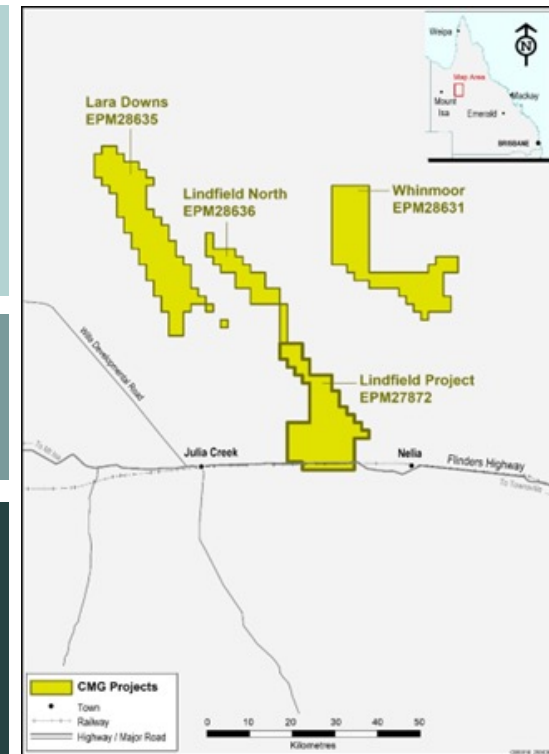
Mineral resource estimate of 713Mt at 0.32%  $V_2O_5$ , 3.4%  $Al_2O_3$  and 130ppm Mo. This includes 491 Mt @ 0.32%  $V_2O_5$   
72% of the resource is located within 20m from surface

## Portfolio of 4 Tenements

All tenements located within 30km of each other

## 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.



1 - Refer ASX Release – “Significant Increase to Mineral Resource Estimate” – 10 May 2024.

2 - Refer ASX Release – “Revised Release of Scoping Study Results” - 9 November 2023

## PARTNERSHIPS



**SEDGMAN**



VISION & STRATEGY

MARKET DEMAND

RESOURCES

PEOPLE &  
PARTNERS

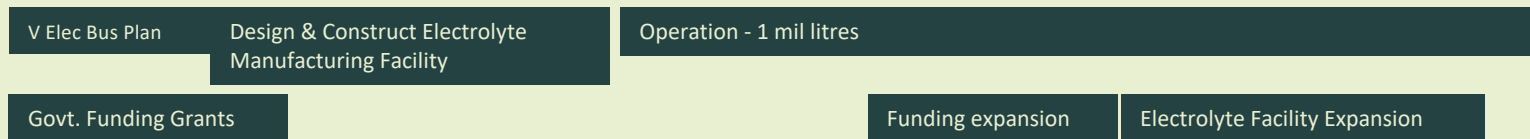
## INDICATIVE TIMELINE



### PROPOSED LINDFIELD PROJECT DEVELOPMENT



### VANADIUM ELECTROLYTE MANUFACTURING DEVELOPMENT



VISION & STRATEGY

MARKET DEMAND

RESOURCES

PEOPLE &  
PARTNERS

# BOARD OF DIRECTORS & EXECUTIVE LEADERSHIP TEAM



**Alan Broome. AM**  
Chairman

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



**Scott Winter**  
Managing Director

- 30 years of experience working across large scale 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), CEO of MACH Energy, CEO of Perenti Surface.



**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

- CEO of Idemitsu Australia Pty Ltd.
- Non-Executive Director:
  - Delta Lithium Ltd
  - Veeco Group Pty Ltd
  - Low Emissions Technology Australia Ltd
- More than 20 years experience in mining sector with 15 years in senior management and Executive roles
- Bachelor of Engineering – Mining (Honours), MBA, Graduate of AICD, Fellow of AUISMM,



**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 and AICD fellow.



**Nicola Semler**  
CTO

- Metallurgical Engineer with broad experience in mining across global markets.
- Proficient in project development, commissioning, and operations.
- Expert in strategic business planning and implementing cultural change.
- Knowledgeable in the end-to-end process of mine closure.

## KEY 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

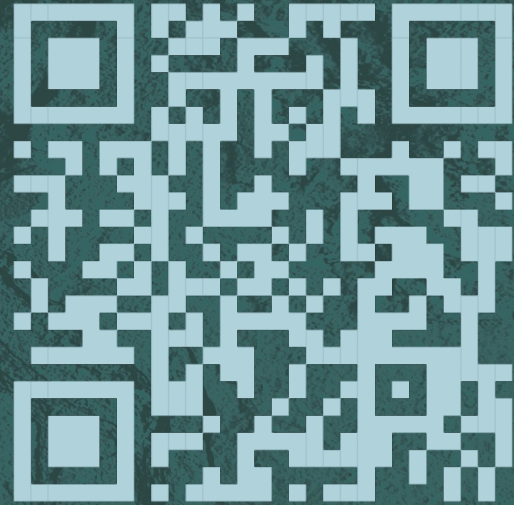
Technical, construction and operations supported by complementing board skills, motivated to drive strategy.





# CRITICAL MINERALS GROUP

LEARN MORE ON OUR SITE



PRESENTER:

Scott Winter, Managing Director