



**CRITICAL
MINERALS
GROUP**

INVESTOR PRESENTATION
September 2023
ASX:CMG

**Empowering a Sustainable Future:
Pioneering High-Quality Vanadium for the
Energy Storage Revolution.**

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Competent Person Statements

The information in this presentation that relates to metallurgy and metallurgical test work is based on, and fairly represents, information compiled by Adrian Buck, a Competent Person, who is a Member of the Australasian Institute of Mining and Metallurgy (AusIMM). Adrian Buck is the Principal Geologist – Australia for John T Boyd Company. Adrian Buck has sufficient experience with the style of processing response 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 Buck consents to the inclusion of the matters based on their 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 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.

CMG supporting global communities through an energy transition...

Global pressure drives renewable energy age...

- Renewable Energy Targets (Global, Australia, QLD) 100% by 2050
- QLD renewable energy target 70% by 2032 and 80% 2035.

Federal, QLD Govt priority for Critical mineral zone, Vanadium

- \$100m grant for battery manufacture in QLD
- QLD night Base load = 72GWh = 230 mil t Vanadium Ore = 40 mines

Battery Storage converts renewable energy to BASE load

- Vanadium batteries are scalable, long life, low cost, long duration storage
- Vanadium batteries – grid energy storage and stability

CMG developing high purity vanadium electrolyte for battery

- Lindfield Vanadium Project supports QLD needs and could produce (1-2) GWh
- JORC 254 Mt Indicated, ideal location, on development pathway

Vanadium in short supply – need security of supply chain

- 92% of vanadium currently consumed in steel manufacture
- Australia, Qld, CMG offers security of high purity vanadium for batteries

Partner to grow, deliver energy storage to the Global Market...

- IDEMITSU major shareholder
- Board and Development team to deliver strategy to manufacture battery products

Purpose

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

Vision

To be known as the leading high quality manufacturer of Vanadium battery products for the energy storage market and deliver responsible and robust returns.

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

The Lindfield Project, QLD

The Lindfield Project

Vanadium and High-Purity Alumina (HPA)

Large Scale Resource¹

Lindfield Inferred Resources of 363 Mt @ 0.43% V₂O₅, includes Indicated Resource of 254 Mt @ 0.44% V₂O₅, Oxidised zone totalling 128 Mt @ 0.48% V₂O₅ which is showing high recoveries. Large scale operational opportunity.

HPA Secondary product

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

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.

HIGHLIGHTS

Supported Approvals

Environmental Approvals supported through state and federal governments.

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.

Positive Studies

Scoping study on track to identify positive outcomes and recommend PFS. Beneficiation showing positive results, NDA with Vecco Group to facilitate sharing of technical outcomes.

¹ Refer to CMG's ASX announced dated 16 May 2023. CMG confirms that it is not aware of any new information or data that materially affects the information, and that all material assumptions and technical parameters continue to apply and have not materially changed.
* VTM deposits: magmatic deposits of titanomagnetite ((Fe,Fe,Ti)O₄) enriched in vanadium. These deposits often occur in mafic or ultramafic igneous rocks (gabbro or anorthosite) and are commonly found in Large Igneous Provinces

The Lindfield Project

Vanadium and High-Purity Alumina (HPA)

Focused on meeting the growing demand for minerals critical to ensuring a carbon neutral future

Inferred JORC

- 363 Mt @ 0.43% V₂O₅ and 4.8% Al₂O₃,
- Indicated Resource of 254 Mt @ 0.44% V₂O₅
- Oxidised zone totalling 128 Mt @ 0.48% V₂O₅

Orebody at surface

- Large, flat, soft, friable,
- Low strip ratio, low cost open cut mining and crushing.

Vanadium in oxidised zone

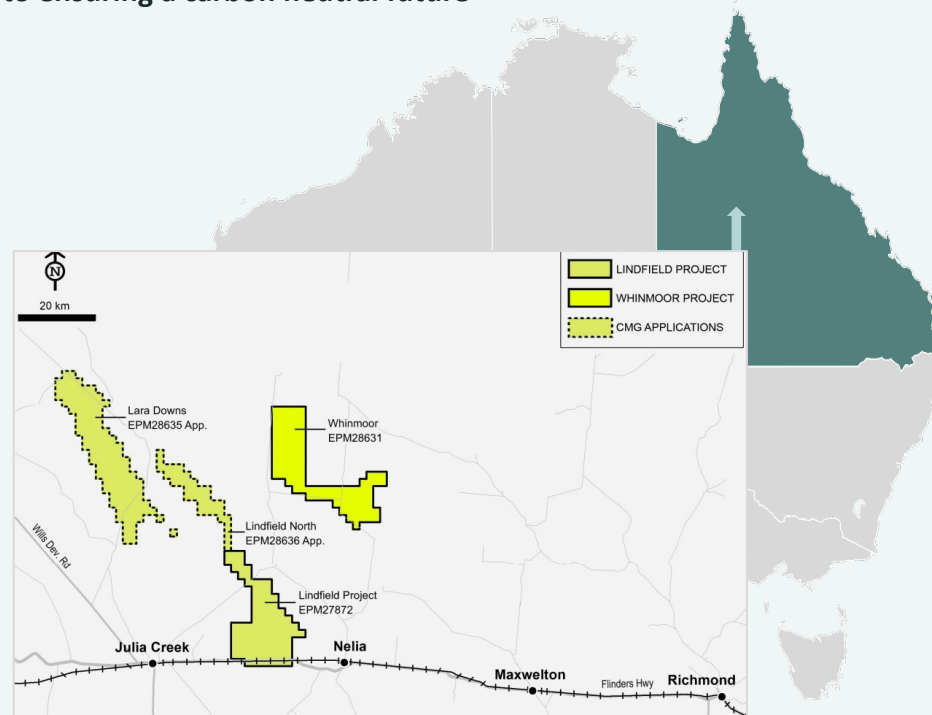
- Advantage over hard rock orebodies.
- Less complex processing, higher V₂O₅ concentrate grade (float, leach)
- Reducing overall CAPEX and OPEX.

Proven High Purity Alumina (HPA) Product

- Aluminum Oxide (Al₂O₃) included in the resource.
- HPA production included as part of the processing stream.

Limited Contaminants for battery electrolyte

- Limited contaminants lending the resource to lower cost processing and downstream refinement.



295km² tenement in the North West Mineral Province of QLD located 30km from Julia Creek.

Forging Global Energy Transitions for Queensland's Premier Vanadium Supply Chain future

Vanadium Market Overview

Leading the path to zero 2050

CMG is leveraging 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 storage solution

Vanadium Demonstration Plant

\$10m Fully funded (QLD Gov) to build plant in Townsville



National Battery Testing Centre (NBTC)

\$50m project and \$15m funded (QLD Gov). NBTC will look at Vanadium flow battery development & standards.



CopperString 2.0 transmission line

\$1.7bn 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.

Vanadium Processing Pilot Plant

\$1.265m grant (Federal Gov) to Brisbane Met Labs Operating by Oct/Nov 2023



Battery Manufacturing Queensland

\$100m Federal government commitment to develop battery manufacturing in QLD

Vanadium Batteries – Proven technology powering cities

Vanadium batteries powering cities around the world TODAY

Why are they favoured?

- Safe and non flammable
- Vanadium electrolyte is 100% recyclable and reusable
- 30 year plus lifespan with complete discharge and no deterioration
- Scale-able with unlimited capacity
- Medium to long term storage 3-10 hours with rapid response (milisecs)



Bungama, port Pirie, South Australia 2MW/ 8MWh Vanadium Flow battery



Hakkaido Electric Power , Japan 15 MW (60 MWh)



Worlds largest Vanadium battery Dalian Province China, 100MW (400MWh) and enough power to meet demand from 200,000 residents

Vanadium Batteries

Vanadium batteries become the new base load energy powering cities

- Renewable energy (Solar, wind) is erratic and intermittent and NEEDS stable energy storage.....Vanadium Batteries provide that stability.
- Vanadium Batteries provide
 - **Base Load power** - balance supply demand
 - **Grid stability** – ensure quality/ reliability power
 - **Store renewable energy** – support peak loads
 - **Back up power supply** – emergency power
- Australia, 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.

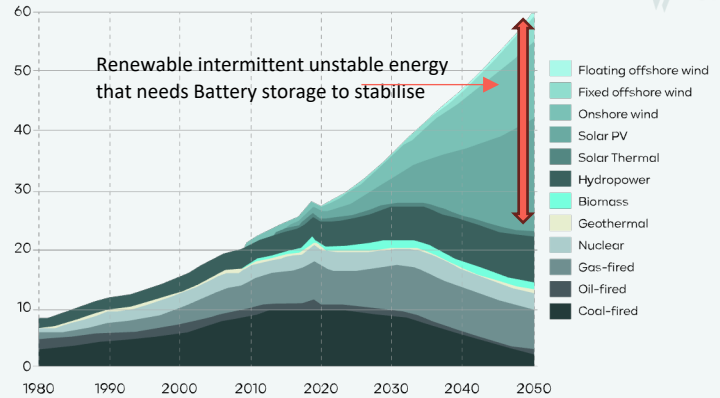
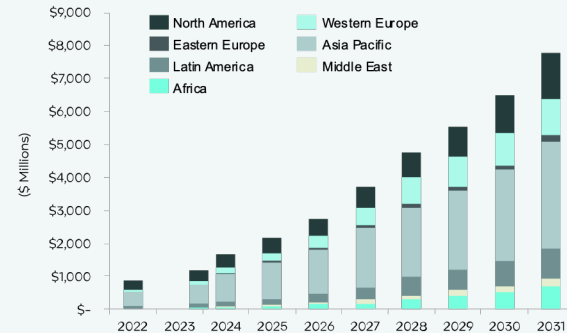


Figure 5 World Electricity generation by power station type PWh/yr

Annual Installed VRFB Utility-Scale and Commercial and Industrial Deployment Revenue by Region, All Application Segments, World Markets: 2022-2031



(Source: Guidehouse Insights)

We're Meeting the Growing Demand for
Minerals Critical to Ensuring a
Carbon Neutral Future.

Our ESG Vision

ESG Focus

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

01

Ethics and Accountability

- Ethical values
- Trust
- Stakeholder Respect and Engagement



02

Mineral Traceability

- Supply chain
- Chain of custody

03

Community and People

- Local community
- Traditional Owners

04

Environmental Management

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

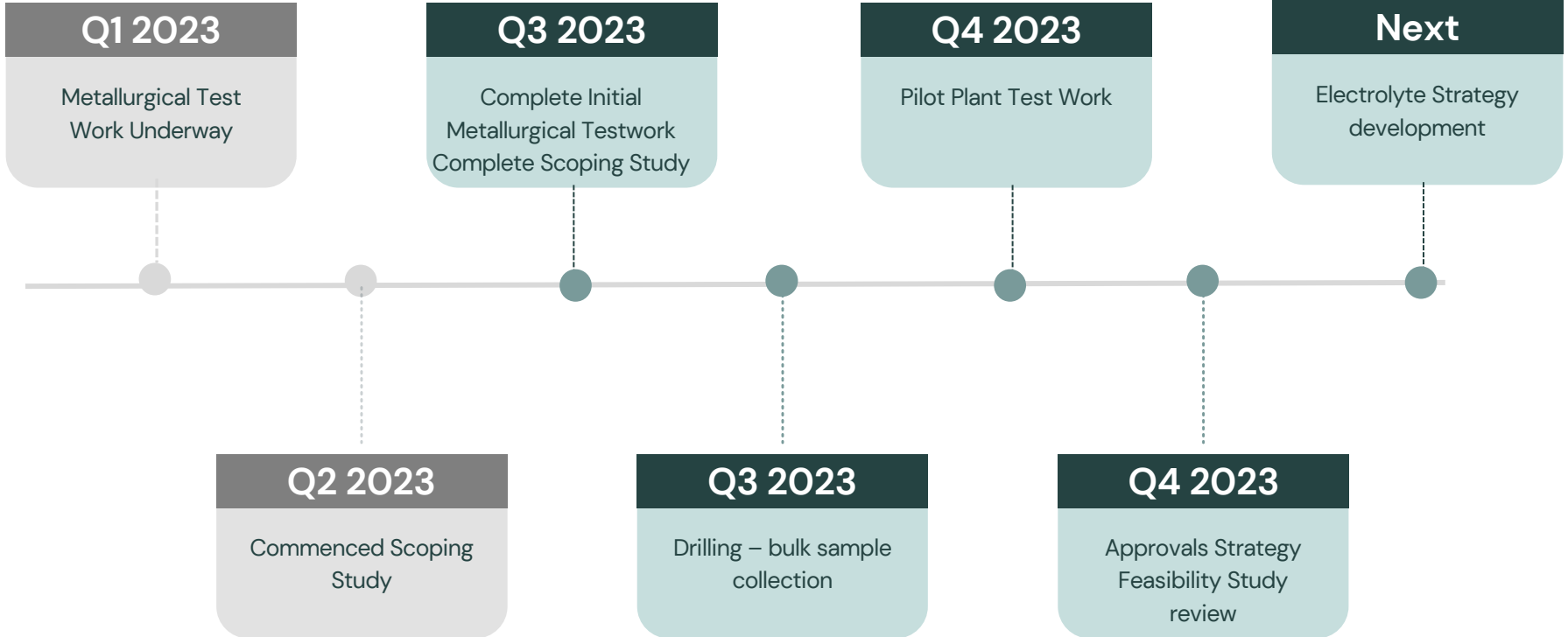
Ethics, Accountability, Community and People

- Ownership diversity
- Employment diversity
- HR development and diversity
- Inclusive supplier procurement and development/ education.
- Community development – Traditional owners
- Housing and social development

Environmental Management – Energy Efficiency

- Solar farm for internal power usage
- Large scale Vanadium battery storage to support at site
- Link to supporting Julia Creek region on a broader / larger scale
- Supply chain involvement and security

Newsflow Catalysts



Board of Directors



Alan Broome. AM
Chairman

- Extensive Mining & Board experience
- NED of DDH1 (ASX:DDH)
- 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: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)



Art Malone
Non-Exec Director

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



Steve Kovac
Non-Exec Director

- CEO of Idemitsu Australia
- NED of Vecco Group
- NED of Delta Lithium
- Director at Low Emission Technology Australia (LETA)
- More than 20 years of Mining and Executive experience
- Bachelor of Engineering - Mining (Hons), MBA & GAICD



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

Investment Highlights



World Class Asset

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



Government Support

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



Significant Upside

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



Solid Investor Group

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



Experienced Board & Management

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



Vast Opportunity

Additional tenements providing short term financial gain with longer term upside potential



CRITICAL MINERALS GROUP

ASX:CMG

Managing Director

Scott Winter

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Total Shares on Issue

44.08M

Options (@ \$0.25) exp. 19 September 2024

8.36M

Cash (as at 30 June 2023)

\$2.706M

Market Cap (undiluted)

\$10.36M

Share Price (as at 8 September 2023)

\$0.235

Investor and Media Relations

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