



CRITICAL MINERALS GROUP

I N V E S T O R
P R E S E N T A T I O N

JUNE 2023

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Competent Persons Statement

The information in this presentation that relates to the exploration results, exploration targets and mineral resources at the Lindfield Project (EPM 27872), Figtree Creek Project (EPM 27998) and Lorena Surrounds Project (EPM 27999) was first reported by CMG in its prospectus dated 25 May 2022 (Prospectus) and CMG's ASX announcements dated 22 February 2023, 13 March 2023 and 16 May 2023. CMG confirms that it is not aware of any new information or data that materially affects the information included in the Prospectus and CMG's ASX announcements dated 22 February 2023, 13 March 2023 and 16 May 2023, and that all material assumptions and technical parameters underpinning the exploration results, exploration targets and mineral resources in the Prospectus continue to apply and have not materially changed.

The information in this presentation that relates to exploration results, exploration targets and mineral resources 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 that is relevant to the style of mineralization and type of deposit under consideration and to the activities which they are undertaking 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 presentation that relates to the exploration results, exploration targets and mineral resources at the Whinmoor Project (EPM 28631), Lara Downs Project (EPM 28635 application) and Lindfield North Project (EPM 28636 application) was first reported by CMG in its announcements dated 19 October 2022 and 1 February 2023. CMG confirms that it is not aware of any new

information or data that materially affects the information included in the announcements date 19 October 2022 and 1 February 2023, and that all material assumptions and technical parameters underpinning the exploration results, exploration targets and mineral resources in the announcement continue to apply and have not materially changed.

Announcements

This presentation should also be read in conjunction with CMG's Prospectus, the CMG Annual Report for 2022, the CMG Half Year Accounts for the period ending 31 December 2022 and the CMG September 2022, December 2022 and March 2023 Quarterly Activities Report, together with any announcement made by CMG in accordance with its continuous disclosure obligations including but not limited to the following ASX releases:

- 27 September 2022 – CMG – Commencement of Trading
- 12 October 2022 – Commencement of Drilling at Lindfield Vanadium Project
- 19 October 2022 – New Tenement Applications
- 28 October 2022 – Figtree Creek and Lorena Surrounds Tenements Granted
- 2 November 2022 – Completion of drilling at Lindfield Vanadium Project
- 1 February 2023 – Operations Update
- 22 February 2023- Initial Assay Results
- 13 March 2023 – Final Assay Results
- 16 May 2023 – Resource Update
- 31 May 2023 – Scoping Study Commencement.



We're meeting the growing demand for minerals critical to ensuring a carbon neutral future.

Our ESG Vision

Corporate Snapshot

Vanadium Development in a premium jurisdiction

Total Shares on Issue	44.08M
Options (@ \$0.25)	8.36M
Cash (As reported in quarterly)	\$3.16M
Market Capitalisation (undiluted)	\$9.25M
Share Price (1/06/2023)	\$0.21

Major Shareholders

Top 20	77%
Idemitsu Lindfield	32.22%



Significant Shallow JORC resource¹

JORC Inferred resource of 363mt @ 0.43% V₂O₅ and 4.8% Al₂O₃, includes Indicated Resource of 254mt @ 0.44% V₂O₅.



Strong support by Idemitsu

Strategic Investor, AU\$70b annual revenue company has identified Vanadium as one of their transition commodities.



Significant government incentives

Government policy creating investment tailwinds for critical minerals.



Project development underway²

Metallurgical studies and Scoping study underway.

1. Refer to CMG's ASX announcement 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.
 2. Refer to CMG's ASX announcements dated 1 February 2023 and 31 May 2023.

Board & Management



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 operating 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 Peak Helium
- Managing Director of Graphinex



Steve Kovac
Non-Exec Director

- CEO of Idemitsu Australia
- NED of Vecco Group
- Alternate Director at Low Emission Technology Australia (LETA)
- More than 20 years of Mining and Executive experience
- MBA & GAICD



Stuart McClure
Non-Exec Director

- Senior finance executive with 17 years experience.
- Corporate adviser to public and unlisted companies
- CEO Vested Equities
- Director of CopperX Ltd an unlisted Copper exploration project
- Bachelor of Business and AICD fellow

Vanadium Redox Flow Batteries

- VRFB's are poised to play a significant role as a large-scale, long-duration energy storage solution
- Superior life of approximately 30 years
- Can hold charge for long periods
- No flammable, explosion or toxicity risk, and batteries do not deteriorate
- Highly recyclable/reusable
- VRFB manufacturers are actively seeking supply unsuccessfully
- Largest VRFB located in Dalian China with 100MW/400MWH to be scaled up to 800MWH. Holds 9000 tonnes of V_2O_5 .

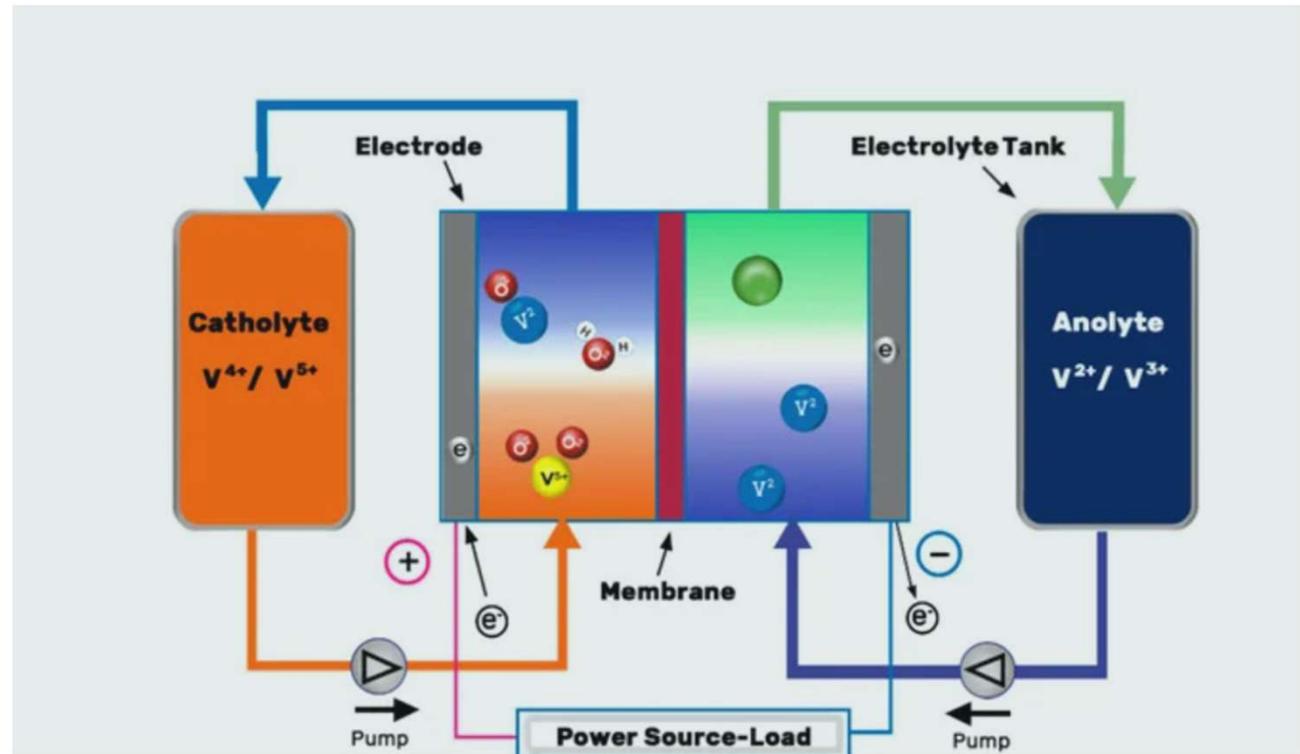
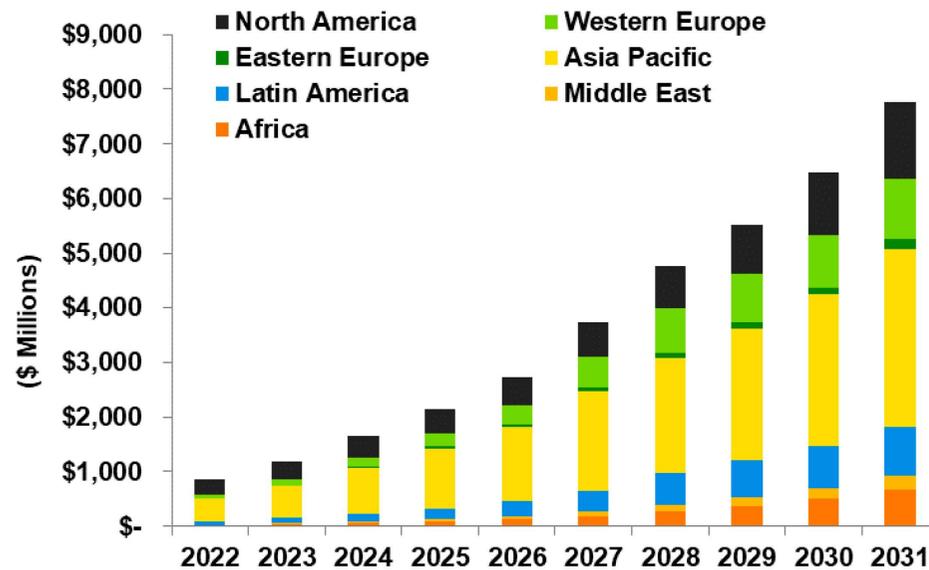


Figure 1: Schematic illustration of a VRFB. Source: Encyclopedia Journal (ISSN 2309-3366)

Vanadium Supply & Demand

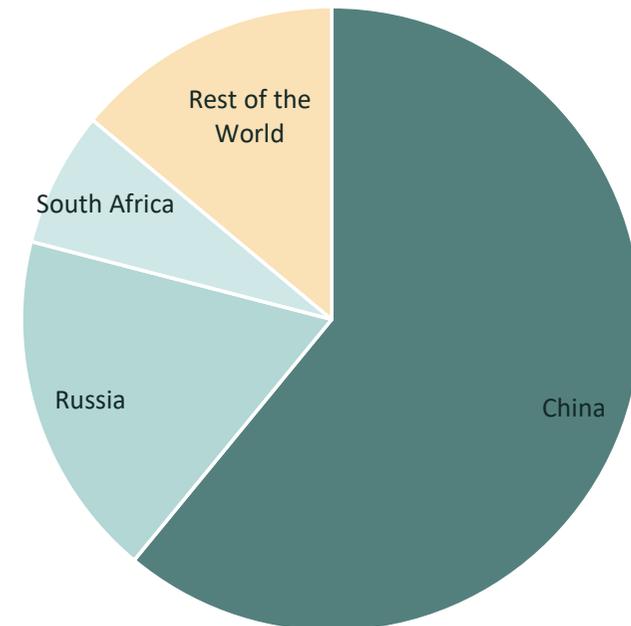
Annual Installed VRFB Utility-Scale and Commercial and Industrial Deployment Revenue by Region, All Application Segments, World Markets: 2022-2031



(Source: Guidehouse Insights)

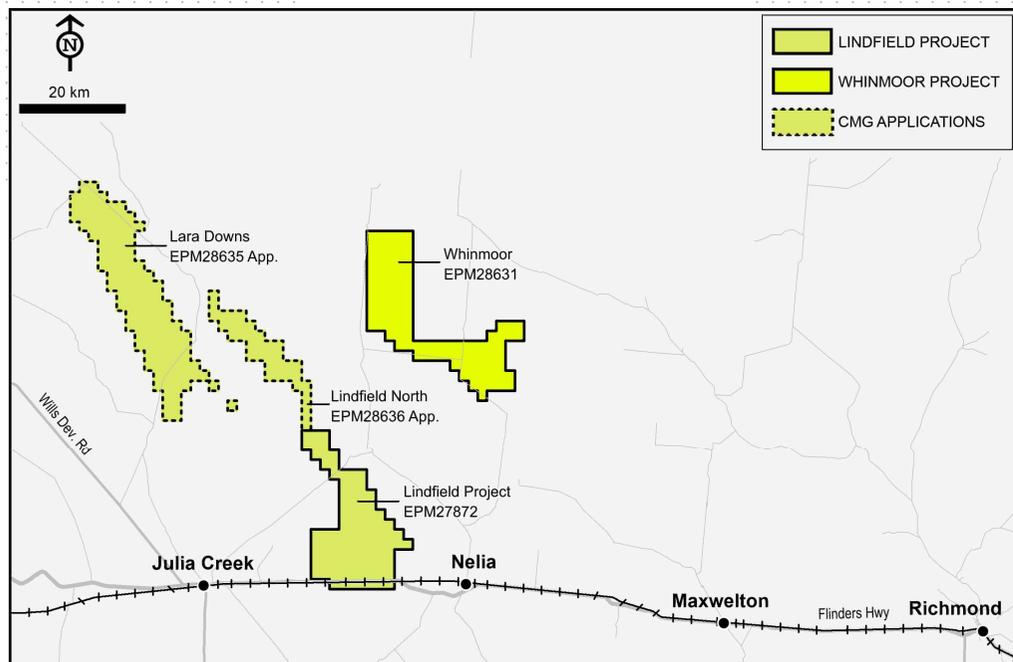
- ▶ Vanadium consumption in batteries is forecast to grow at an average compound rate of 41% per year from 2022 to 2031.

Vanadium Production



- ▶ 85% of world mine production comes from China, Russia and South Africa
- ▶ Supply chain security

Source: Guidehouse Insights: White Paper Vanadium Redox Flow Batteries Identifying Market Opportunities and Enablers Published 2Q 2022
 Merchant Research & Consulting: Vanadium 20230 World Market Review and Forecast to 2032
 Disclaimer: A recipient of this presentation must make their own assessment of the matters contained herein and rely on their own investigations and judgment.



Lindfield Inferred JORC

VANADIUM PROJECT¹

The Lindfield Vanadium resource is our flagship project, ready to develop and meet the growing demand for this critical mineral.



Inferred JORC

363mt @ 0.43% V_2O_5 and 4.8% Al_2O_3 , includes Indicated Resource of 254mt @ 0.44% V_2O_5 . With a significant portion in the oxidised zone totalling 128mt @ 0.48% V_2O_5



Shallow

Shallow resource starting at surface, down to a depth of approximately 30 meters.



HPA Potential

Aluminum Oxide (Al_2O_3) is now included in the resource. Potential for High Purity Aluminum production as part of the processing stream.



Limited Contaminants

Limited contaminants (for batteries) such as titanium from hard rock deposits likely lowering processing costs.

¹ Refer to CMG's ASX announcement 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.

Location & Infrastructure

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

Surrounded by advanced vanadium projects including Multicom Resources' St Elmo Project (Mining Lease) and Richmond Vanadium Technology's Lilyvale Project.

Power

Mains grid access for power

Rail & Roads

Intersected by rail system and Flinders Hwy

Water

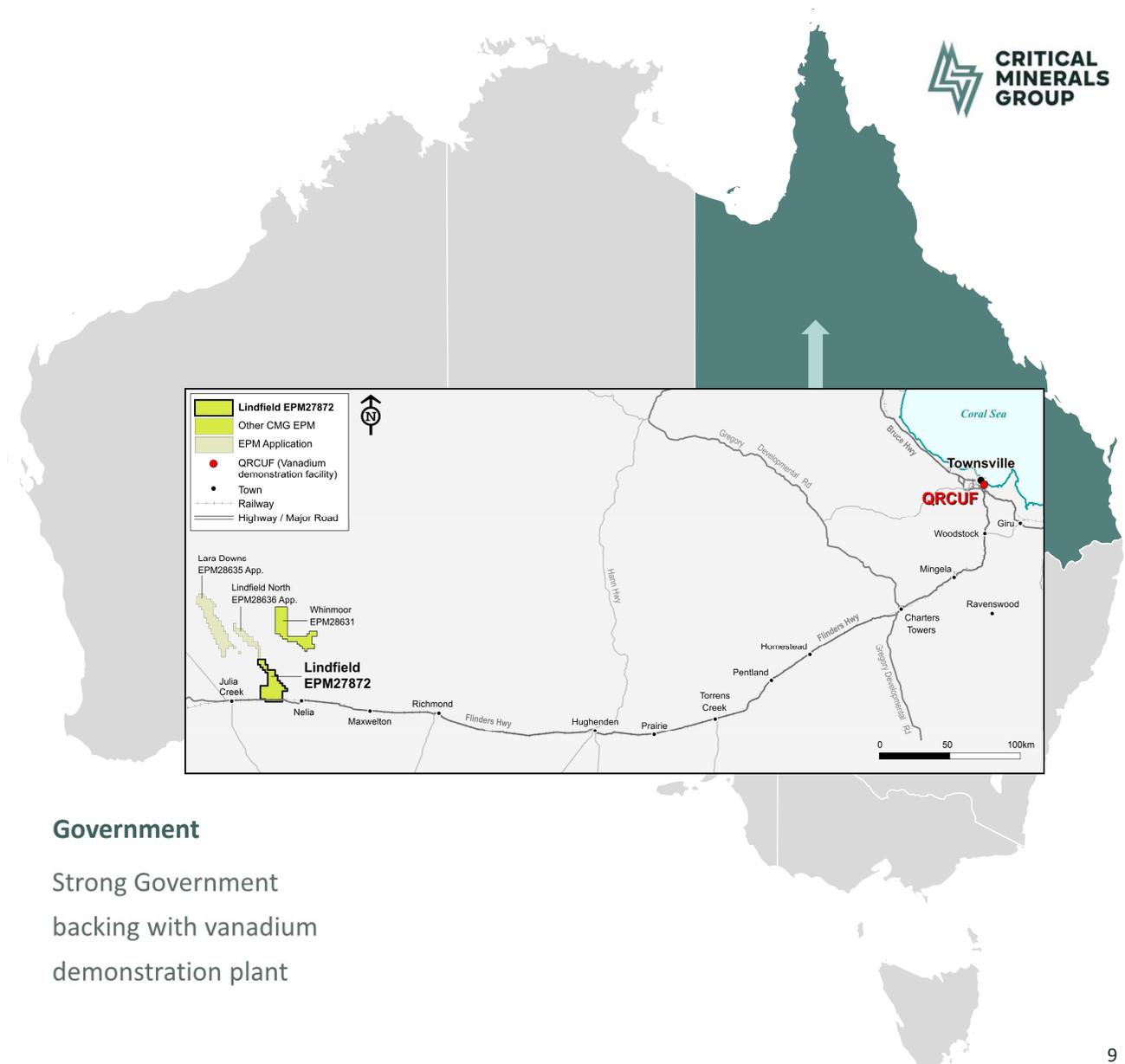
Available surface water

Port

Abbot Point terminal 650km via road and rail

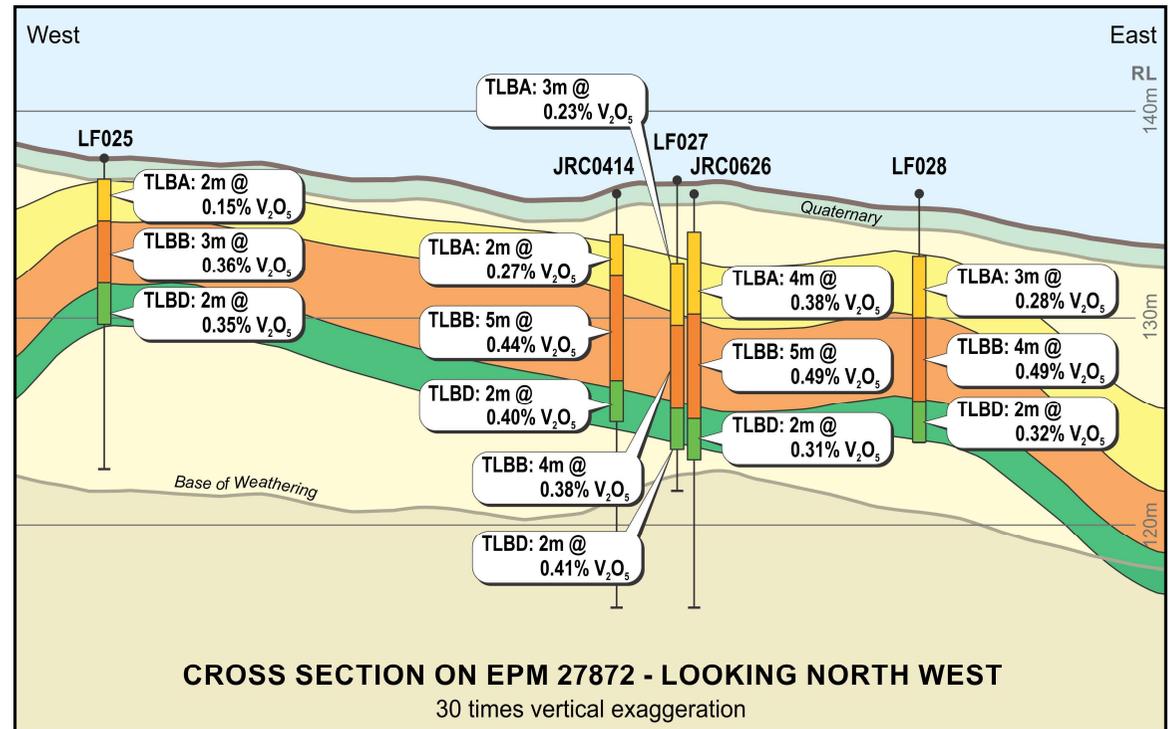
Government

Strong Government backing with vanadium demonstration plant



Unique Deposit Shale Based From Surface

- Ore is soft and at surface requiring no drill and blasting or milling
- Depth advantage = low strip ratio and amenable to standard open cut mining
- Geology gives the deposit an advantage for beneficiation allowing for higher V_2O_5 concentrate upgrade through floatation separation
- This gives oxidized shallow vanadium deposits a significant advantage over titanomagnetite deposits (hard rock). Resulting in less complex processing, reducing the overall CAPEX and OPEX.



Vanadium Tailwinds & Development Strategy

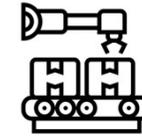
Vanadium Processing Pilot Plant

\$1.265m grant (Federal Gov) to Brisbane Met Labs

[Click here for more Info](#)



CMG is leveraging off the significant grants and incentives put in place to develop domestic production of Vanadium, particularly for use in Vanadium Redox Flow Batteries as a grid scale energy solution



Vanadium Demonstration Plant

\$75m Fully funded (QLD Gov) to build plant in Townsville

[Click here for more info](#)



National Battery Testing Centre (NBTC)

\$50m project and \$15m funded (QLD Gov). NBTC will look at Vanadium flow battery development & standards. Critical Minerals Group is working with NBTC to supply vanadium battery precursor material.

[Click here for more info](#)

Battery Manufacturing Queensland

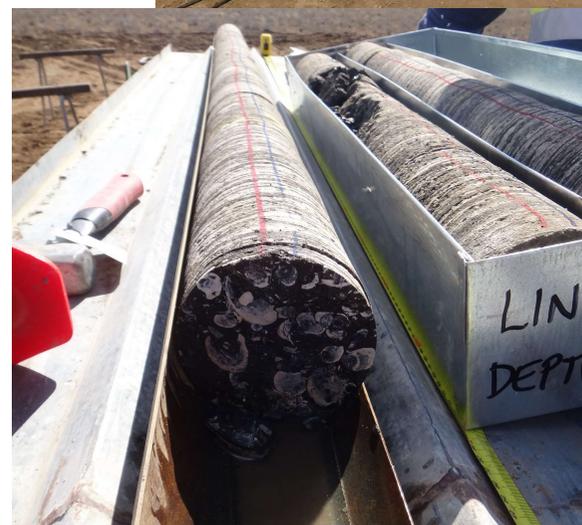
\$100m Federal government commitment to develop battery manufacturing in QLD

[Click here for more info](#)



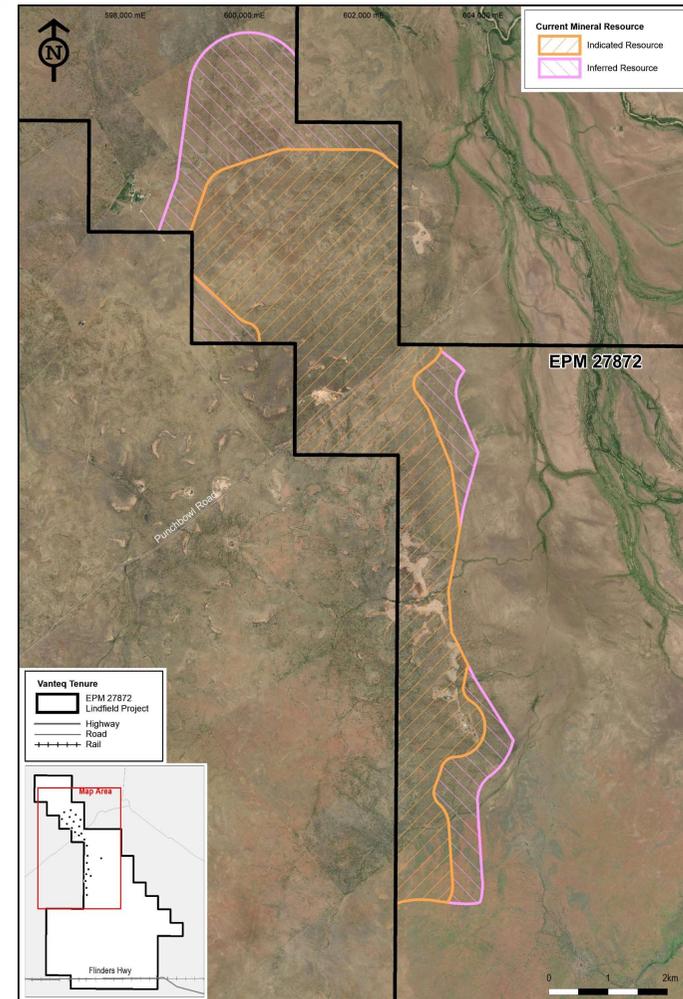
Progress So Far

- ✓ **Secured Idemitsu Australia as a Strategic Investor (2022)**
 - ✓ - refer to CMG's ASX announcement dated 27 September 2022
- ✓ **Listed on ASX (Sept 27th 2022)**
- ✓ **Commenced drilling at Flagship (2022)**
 - ✓ - refer to CMG's ASX announcement dated 12 October 2022
- ✓ **New tenement applications around flagship (2022)**
 - ✓ - refer to CMG's ASX announcement dated 19 October 2022
- ✓ **Granting of Cu/Au tenements (2022)**
 - ✓ - refer to CMG's ASX announcement dated 28 October 2022
- ✓ **Completed drilling at flagship (2022) (23 x 4 inch core holes, 1x open hole and 3x water monitoring holes)**
 - ✓ - refer to CMG's ASX announcement dated 2 November 2022
- ✓ **Granting of Whinmoor tenement (2023)**
 - ✓ - refer to CMG's ASX announcement dated 1 February 2023
- **Metallurgical Test work for Vanadium and HPA (2023)**
 - ✓ - refer to CMG's ASX announcement dated 1 February 2023
- ✓ **Resource upgrade at Lindfield (2023)**
 - ✓ - refer to CMG's ASX announcements dated 16 May 2023
- **Scoping Study underway for Lindfield (2023)**
 - ✓ - refer to CMG's ASX announcements dated 31 May 2023



Lindfield Resource

- Every core hole intersected the shallow Vanadium and Aluminum oxide bearing mineralised zone
- Every core hole had standout assay grades
- V₂O₅ standout assays: LIND011 15.89m – 16.22m @ **0.70% V₂O₅**, LIND016 6.50m–6.90m @ **0.62% V₂O₅** and 6.90m–7.05m @ **0.65% V₂O₅**, LIND019 11.25m–11.50m @ **0.83% V₂O₅**
- Al₂O₃ assays include hole LIND019 1.0 m thick, grading at **18.9% Al₂O₃** from 1.8 m depth
- 363mt @ 0.43% V₂O₅ and 4.8% Al₂O₃, includes Indicated Resource of 254mt @ 0.44% V₂O₅.
- With a significant portion in the oxidised zone totalling 128mt @ 0.48% V₂O₅ (Indicated 104mt @ 0.48% V₂O₅ and Inferred 25mt @ 0.49% V₂O₅)



Lindfield Exploration



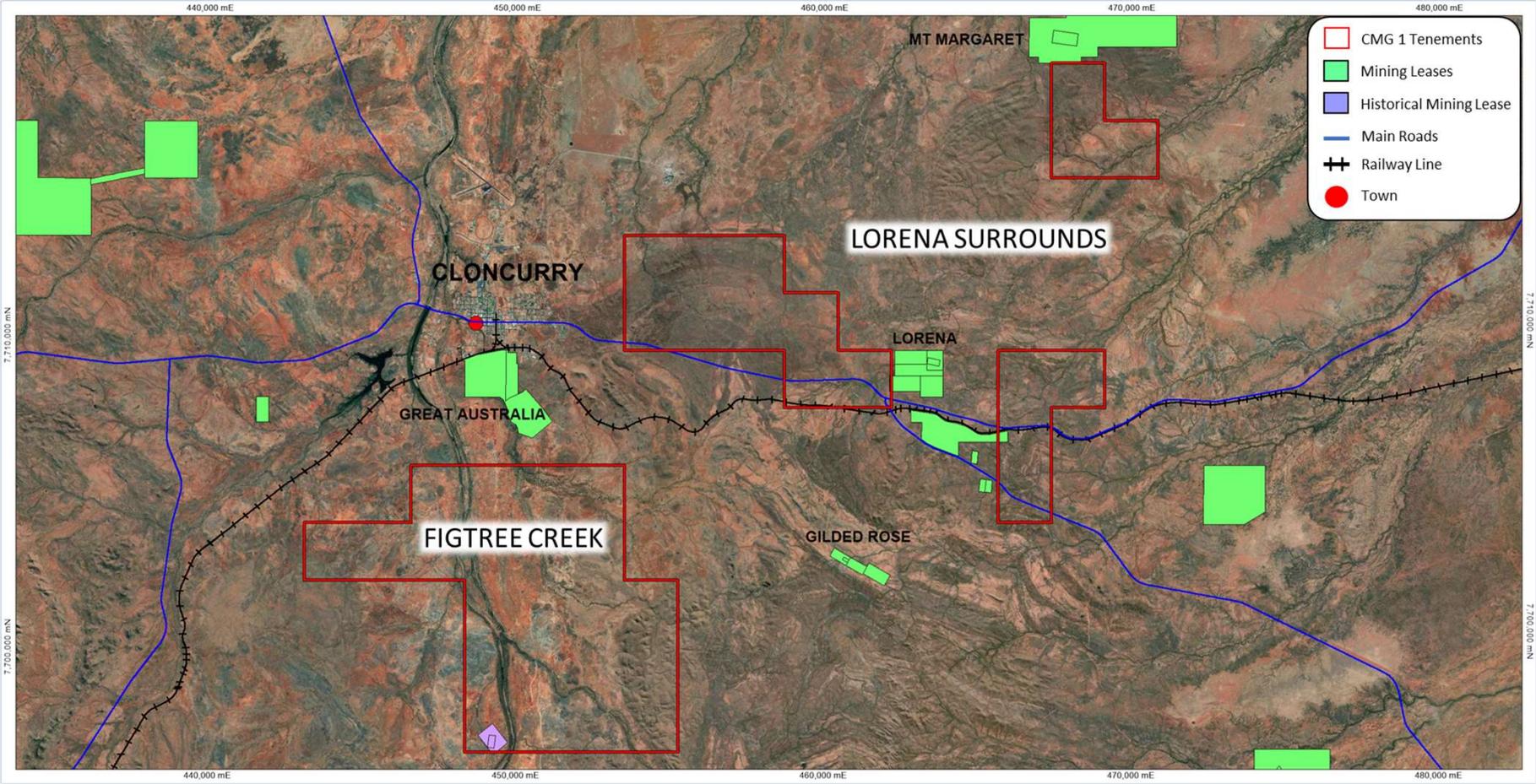
Toolebuc Formation Outcrop (oxidized) at The Lindfield Project



Lindfield Project drill core (hole LIND014) showing the oxidised core intersection from 5.8m depth which contains both Vanadium and Alumina.

Refer to CMG's ASX announcement dated 13 March 2023.

Copper Gold Tenements



Source: Queensland Government, GeoResGlobe, Available at: <https://georesglobe.information.qld.gov.au/>

Where to Next



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