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**CRITICAL
MINERALS
GROUP**

C O M P A N Y
P R E S E N T A T I O N

—
OCTOBER 2022

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Competent Persons Statement

The information in this presentation that relates to a JORC resource, is based on information compiled and reviewed by Mr Lyon Barrett. Mr Barrett is a Member of the Australasian Institute of Mining and Metallurgy and is a Principle Geologist employed by Measured Group Pty Ltd. Mr Barrett has more than 20 years' experience in the estimation of mineral resources for projects both in Australia and overseas. This expertise has been acquired principally through exploration and evaluation assignments at operating mines and exploration areas. This experience is more than adequate to qualify him as a Competent Person for the purposes of Resource Reporting as defined in the 2012 edition of the JORC Code.

**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

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Total Share on Issue	44.08M
Options (@ \$0.25)	8.36M
Cash	\$4.1M
Market Capitalisation (undiluted)	\$9.25M
Share Price (24/10/22)	\$0.21

Major Shareholders

Top 20	79.7%
Idemitsu Australia	32.22%
Founders, Management & Board	27.9%



Significant Shallow JORC resource*

210Mt @ 0.39% V₂O₅
Inferred JORC resource,
from surface.



Established mining region in Julia Creek QLD

Supported by existing
infrastructure, road, rail,
power & port.



Significant government incentives

Government policy
creating investment
tailwinds for critical
minerals.



Project development underway

24 hole drill program
underway in October 2022
with metallurgical studies
commencing Q4 2022.

*Refer to prospectus 25 May 2022. The information in this presentation that relates to the mineral resource estimates for the Company's Lindfield Project was first reported by the Company in its Prospectus. The Company confirms that it is not aware of any new information or data that materially affects the information included in the Prospectus, and in the case of estimates of mineral resources, that all material assumptions and technical parameters underpinning the estimates in the Prospectus continue to apply and have not materially changed

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 Drelincourt
Managing Director

- Geologist and Founding Director
- Proven executive with 16 years industry experience
- 6 years experience working on Julia Creek Vanadium projects
- Extensive resources experience from Greenfields exploration and early stage development through to mining operations



Art Malone
Non-Exec Director

- Senior Energy and Resources Executive.
- 15 years managing large scale projects in the resource sector.
- Director of CopperCorp Pty Ltd an unlisted Cloncurry Copper Gold exploration project.
- Managing Director of Peak Helium



Toni Myers
Company Secretary

- Toni is an experienced corporate lawyer drawing on over 12 years of practice within the legal industry. Toni has held a broad range of roles from private practice (both in top tier and boutique firms) through to government and inhouse roles.
- Toni has aided companies by advising on and assisting with various Corps Act, Listing Rules and regulatory compliance for multiple junior exploration

Lindfield Inferred JORC

VANADIUM PROJECT

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



Shallow Deposit

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



Limited contaminants

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



Potential HPA & Mo

Additional potential minerals; High Purity Aluminum and Molybdenum. The current drill program and test work aim to identify any potential additional resources.



Inferred JORC*

Inferred JORC resource of 210Mt with a grade of 0.39% V₂O₅ from surface. The site has 44 drill holes within the tenement and further drilling underway.

**Refer to prospectus 25 May 2022. The information in this presentation that relates to the mineral resource estimates for the Company's Lindfield Project was first reported by the Company in its Prospectus. The Company confirms that it is not aware of any new information or data that materially affects the information included in the Prospectus, and in the case of estimates of mineral resources, that all material assumptions and technical parameters underpinning the estimates in the Prospectus continue to apply and have not materially changed*

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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 QEM Limited.

Power

Mains grid access for power

Water

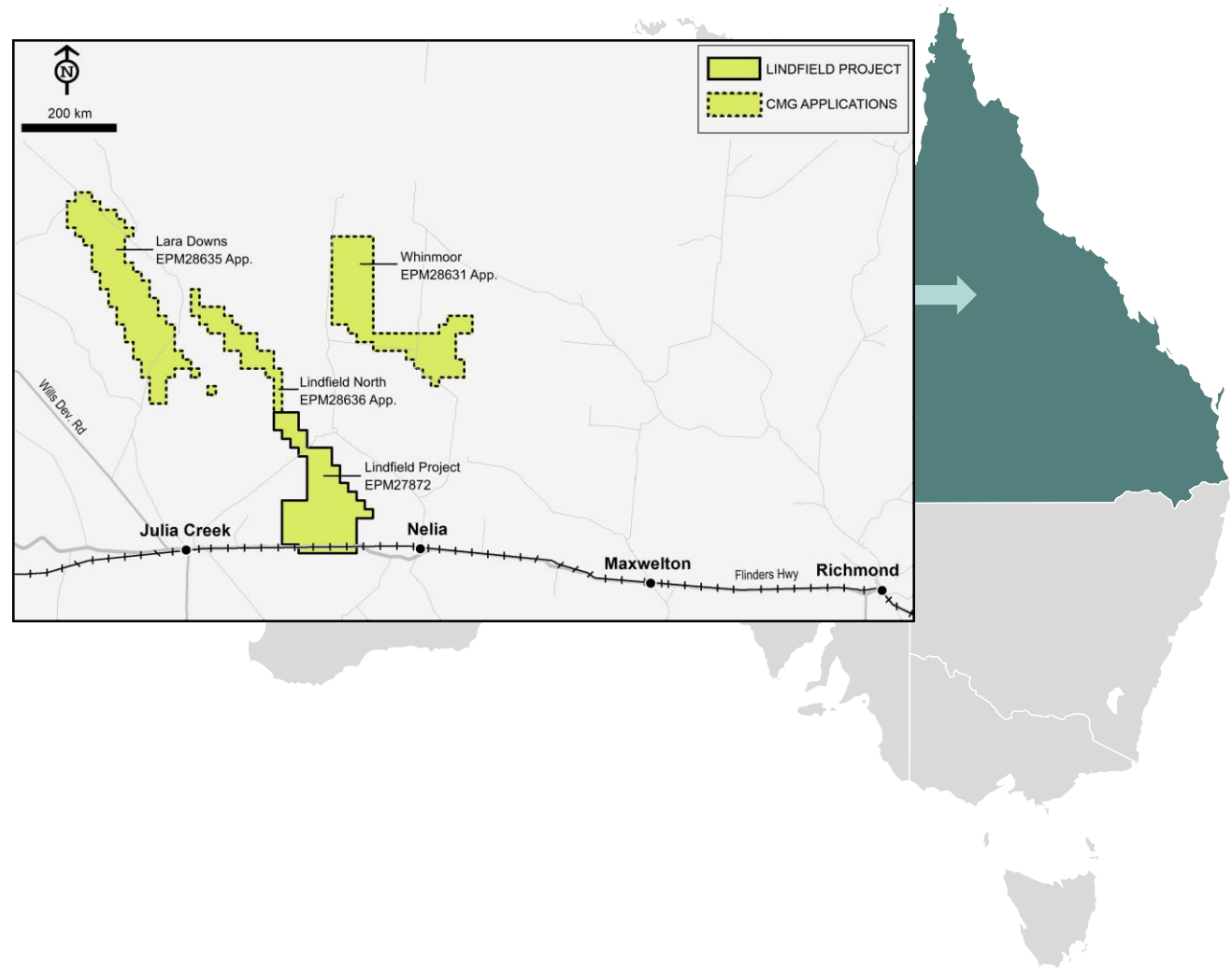
Available surface water

Rail & Roads

Intersected by rail system and Flinders Hwy

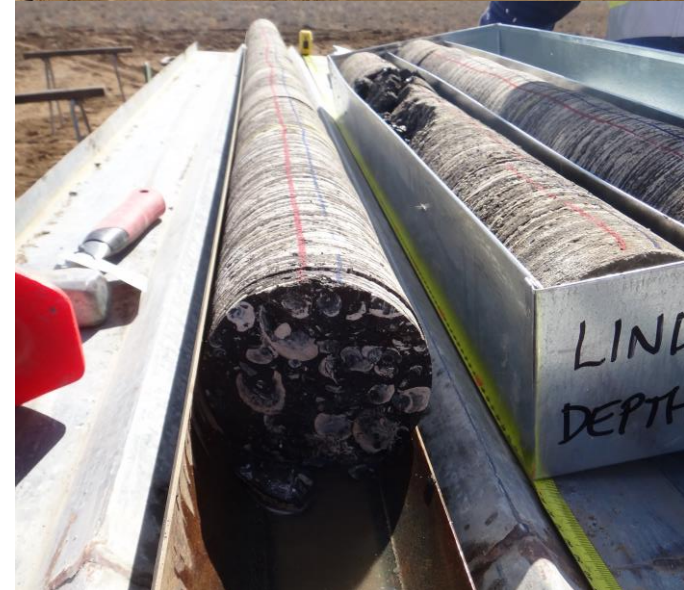
Port

Abbot Point terminal 650km via road and rail



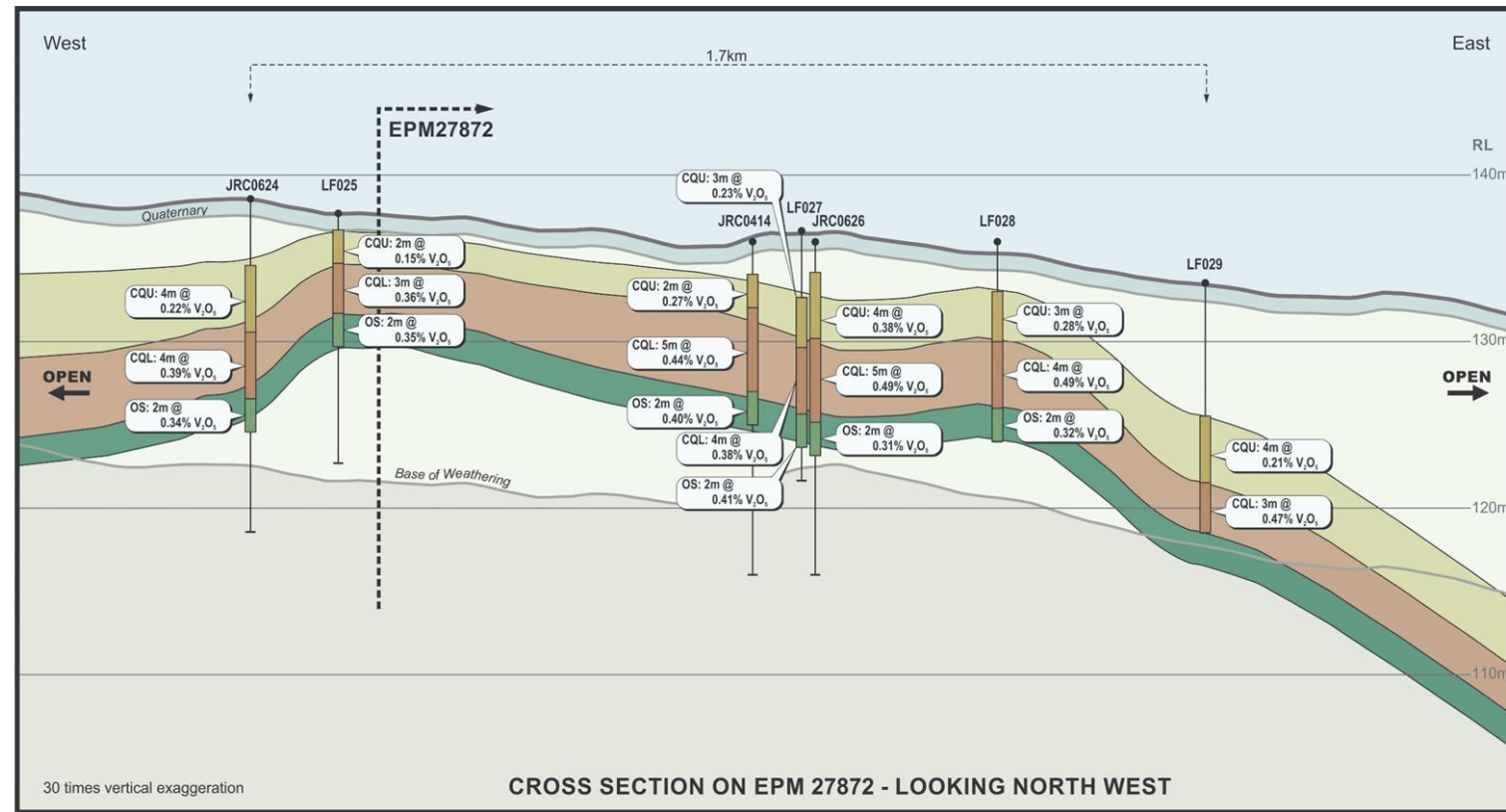
Short Term Activities

- **Drilling** underway (23 x 4 inch core holes, 1x open hole and 3x water monitoring holes)
- **Resource upgrade** JORC on Vanadium resource, size, category and grade
- **Metallurgy** test work to commence immediately on completion of drilling
- **Exploration** and Review of opportunities Molybdenum and High Purity Alumina
- Three tenement applications for vanadium to further build on the companies resource base around the company's flagship Lindfield project



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 V₂O₅ 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 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 V2O5

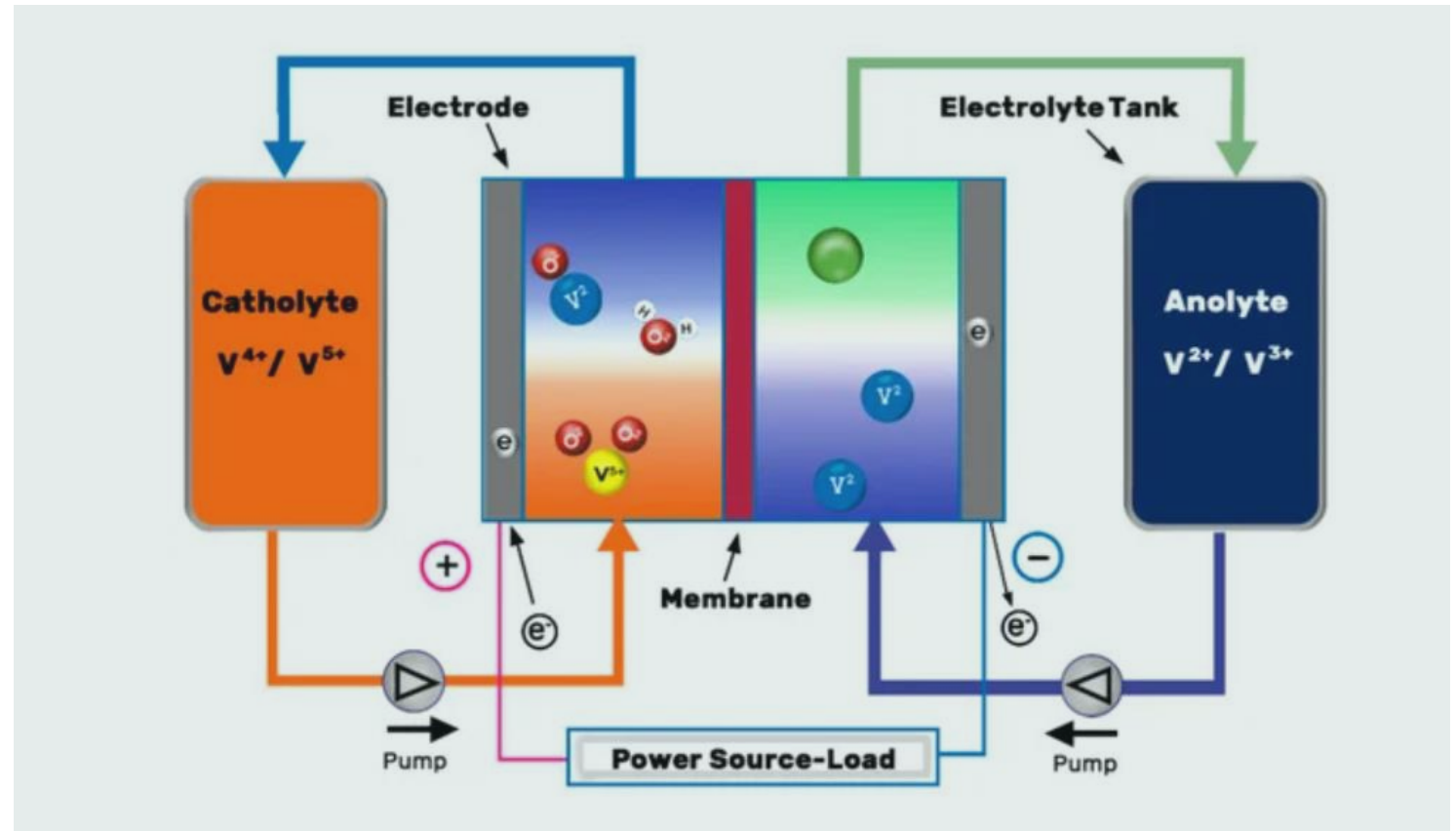
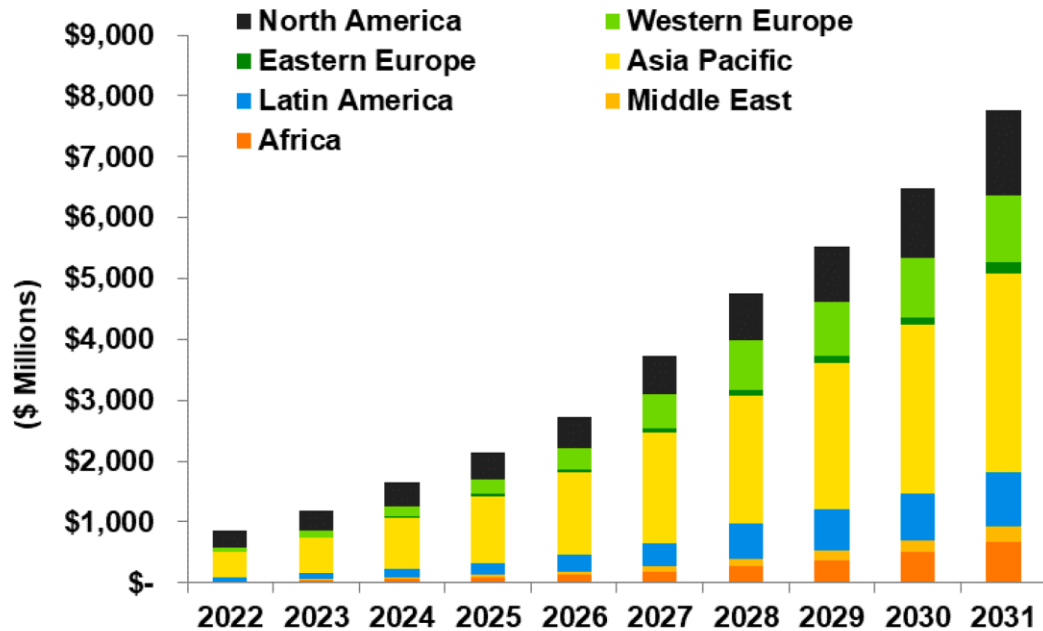


Figure 1: Schematic illustration of a VRFB. Source Encyclopedia Journal (ISSN 2309-3366)

Vanadium Supply & Demand

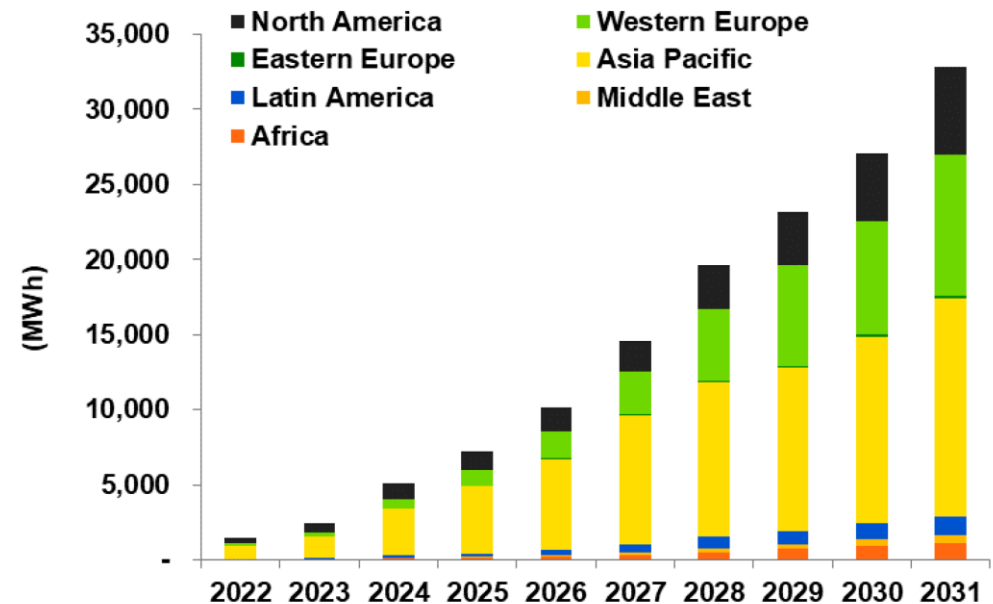
Annual Installed VRFB Utility-Scale and Commercial and Industrial Deployment Revenue by Region, All Application Segments, World Markets: 2022-2031



(Source: Guidehouse Insights)

Guidehouse Insights: White Paper Vanadium Redox Flow Batteries Identifying Market Opportunities and Enablers Published 2Q 2022

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



(Source: Guidehouse Insights)

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Development timeline

Tasks	2022						2023						2024		
	J/F	M/A	M/J	J/A	S/O	N/D	J/F	M/A	M/J	J/A	S/O	N/D	J/F	M/A	M/J
Drilling for Bulk Sampling Collection					■	■									
JORC Resource Upgrade						■	■								
Metallurgical Test Work						■	■	■	■						
Lab Pilot Plant Test Work								■	■	■	■				
Scoping Study											■	■	■	■	

Vanadium Tailwinds & Development Strategy

Vanadium Processing Pilot Plant

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

[Click here for more Info](#)

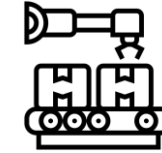
Battery Manufacturing Queensland

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

[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

\$10m 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](#)

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Key Contacts



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