

Technology metals for a cleaner future



ASX:TMT

Disclaimer



Disclaimer

This presentation has been prepared by Technology Metals Australia Limited ("Company"). It does not purport to contain all the information that a prospective investor may require in connection with any potential investment in the Company. You should not treat the contents of this presentation, or any information provided in connection with it, as financial advice, financial product advice or advice relating to legal, taxation or investment matters.

No representation or warranty (whether express or implied) is made by the Company or any of its officers, advisers, agents or employees as to the accuracy, completeness or reasonableness of the information, statements, opinions or matters (express or implied) arising out of, contained in or derived from this presentation or provided in connection with it, or any omission from this presentation, nor as to the attainability of any estimates, forecasts or projections set out in this presentation.

This presentation is provided expressly on the basis that you will carry out your own independent inquiries into the matters contained in the presentation and make your own independent decisions about the affairs, financial position or prospects of the Company. The Company reserves the right to update, amend or supplement the information at any time in its absolute discretion (without incurring any obligation to do so).

Neither the Company, nor its related bodies corporate, officers, their advisers, agents and employees accept any responsibility or liability to you or to any other person or entity arising out of this presentation including pursuant to the general law (whether for negligence, under statute or otherwise), or under the Australian Securities and Investments Commission Act 2001, Corporations Act 2001, Competition and Consumer Act 2010 or any corresponding provision of any Australian state or territory legislation (or the law of any similar legislation in any other jurisdiction), or similar provision under any applicable law. Any such responsibility or liability is, to the maximum extent permitted by law, expressly disclaimed and excluded.

Nothing in this material should be construed as either an offer to sell or a solicitation of an offer to buy or sell securities. It

Future matters

This presentation contains reference to certain intentions, expectations, future plans, strategy and prospects of the Company.

does not include all available information and should not be used in isolation as a basis to invest in the Company.

Those intentions, expectations, future plans, strategy and prospects may or may not be achieved. They are based on certain assumptions, which may not be met or on which views may differ and may be affected by known and unknown risks. The performance and operations of the Company may be influenced by a number of factors, many of which are outside the control of the Company. No representation or warranty, express or implied, is made by the Company, or any of its directors, officers, employees, advisers or agents that any intentions, expectations or plans will be achieved either totally or partially or that any particular rate of return will be achieved.

Given the risks and uncertainties that may cause the Company's actual future results, performance or achievements to be materially different from those expected, planned or intended, recipients should not place undue reliance on these intentions, expectations, future plans, strategy and prospects. The Company does not warrant or represent that the actual results, performance or achievements will be as expected, planned or intended.

Competent Person's Statement

The information in this report that relates to Exploration Results are based on information compiled by Mr John McDougall. Mr McDougall is the Company's Exploration Manager and a member of the Australian Institute of Geoscientists. Mr McDougall has sufficient experience relevant to the styles of mineralisation and types of deposits which are covered in this report and to the activity 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, Mineral Resources and Ore Reserves' ("JORC Code"). Mr McDougall consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to Mineral Resources is based on information compiled by Mr Aaron Meakin. Mr Aaron Meakin is a Principal Consultant of CSA Global Pty Ltd and is a Member and Chartered Professional of the Australasian Institute of Mining and Metallurgy. Mr Aaron Meakin has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2012 Edition of the Australasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves ("JORC Code"). Mr Aaron Meakin consent to the disclosure of the information in this announcement in the form and context in which it appears.

The information that relates to Ore Reserves is based on information compiled by Mr Daniel Grosso an employee of CSA Global Pty Ltd. Mr Grosso takes overall responsibility for the Report as Competent Person. Mr Grosso is a Member of The Australasian Institute of Mining and Metallurgy and has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking, to qualify as Competent Person in terms of the JORC (2012 Edition). The Competent Person, Daniel Grosso has reviewed the Ore Reserve statement and given permission for the publication of this information in the form and context within which it appears.

The information in this report that relates to the Processing and Metallurgy for the Yarrabubba and Gabanintha projects is based on and fairly represents, information and supporting documentation compiled by Mr Brett Morgan a full-time employee of Technology Metals Australia.. Mr Morgan is a Member of The Australasian Institute of Mining and Metallurgy and has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity which he is undertaking, to qualify as a Competent Person in terms of the JORC (2012 Edition). The Competent Person, Brett Morgan consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Pursuant to LR-5-19-1 production target and financial forecast: Refer ASX Release - 21 August 2019 for full details of the DFS: Financial Metrics at long term historical average price of US\$8.78/lb V2O5.

Pursuant to LR-5-19-2 production target and financial forecast: The material assumptions as per the ASX release on 21 August 2019 continue to apply and have not materially changed.

Why invest in TMT?



World class critical minerals in a Tier 1 jurisdiction



Murchison Technology Metals Project

Large, long-life high purity vanadium production - lowest quartile operating costs

Environmental approvals – the last lap – Development Decision Q4 2022



Nationally significant project

Vanadium is recognised as critical to storage & emissions reduction

WA Government Lead Agency status



Part of the future energy solution

Collaboration with Japanese vanadium electrolyte company LE System to develop production capacity in Australia



Quality management team

Experienced Board & Management team with expertise in financing, building and operating mines

Corporate Overview



Capital Structure

TMT ASX Code \$21.7M

Cash

(as at 31 December 2021)

\$117M

Market Cap
(As at 6 April 2022)

204.6m

Shares on Issue

19.2M

Unlisted Options¹ (Various exercise)v

3.65m

Performance Rights²

Resource Capital Fund VII L.P. cornerstone shareholder

Holder Name	Holding (%)
Resource Capital Fund VII L.P.	17.7%
BNP Paribas Nominees	7.9%
Great Southern Flour Mills	6.9%
Retzos Group	4.8%
TOTAL TOP 20	56.0%
Board and Management holdings (fully diluted)	7.9%

^{*}Based on issued capital as at 4 April 2022



 $^{^{1}}$ Includes 14.35m director and employee options – 3.9m vested, balance vest on project development hurdles

² 50% vest on MTMP FID, 50% vest on first production

Experienced Board & Management





Michael Fry Non-Exec Chairman

Michael holds a Bachelor of Commerce degree from the University of Western Australia, is a Fellow of the Financial Services Institute of Australasia, and is a past member of the Australian Stock Exchange. Mr Fry has extensive corporate and commercial experience, financial and capital market knowledge and a background in corporate treasury management.



Ian Prentice
Managing Director

lan holds a Bachelor of Science (Geology) from the University of Western Australia and has over 30 years experience in the global mining industry, spanning exploration, development and open cut and underground mining. Ian is a Member of the Australasian Institute of Mining and Metallurgy.



Dave English
Chief Operating Officer

David is a mining professional with over 30 years operations and project development experience working in the Western Australian resources industry.

Mr English was General Manager Operations at the Windimurra Vanadium Project from February 2008 until February 2010 involved in the process of re-developing the project.



Sonu Cheema
Non-Exec Dir/CoSec

Sonu is a Partner at Cicero Group with over 10 years' experience working with public and private companies in Australia and abroad. Roles and responsibilities held by Mr Cheema include completion and preparation of management and ASX financial reports, investor relations, initial public offers, mergers and acquisitions, management of capital raising activities and auditor liaison.



Jacqueline Murray
Non-Exec Director

Jacqueline is a Partner at Resource Capital Funds (RCF) and has worked within the mining industry for over 20 years.

Mrs Murray joined RCF in 2012 after working in business analysis and improvement roles with BHP Billiton. Prior to this she worked in various geotechnical engineering roles in underground and open pit operations within BHP Billiton and WMC Resources.



John McDougall Exploration Manager

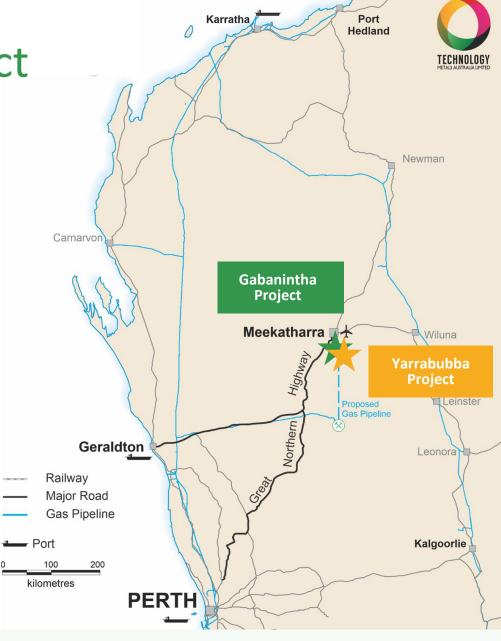
John holds a Bachelor of Science with Honours (Geology) from the University of Tasmania and has over 20 years experience in mineral exploration, with iron ore, base and precious metals experience.

John has been managing the geological data acquisition at Gabanintha and Yarrabubba since February 2017.

Murchison Technology Metals Project

Significant Project Advantages

- Key environmental approvals well advanced; mining leases granted
- High-quality, high-grade resource of 79.8Mt at 1.1% V₂O₅
- Lowest cost quartile conventional salt roast water leach process
- Shallow weathering → delivers high recoveries from start
- Titanium by-product at Yarrabubba to reduce costs even further
- Domestic downstream processing opportunity alongside leading
 Japanese vanadium electrolyte company
- Fully funded to FID and ordering of long lead items



Environment, Social & Governance

Building a globally relevant resources company with a focus on emissions reduction





Environment

- Constructive consultation with WA EPA supporting progress on the GVP ERD.
- Early engagement with Traditional Owners and Pastoralists to minimise impacts.
- Promote energy efficiency and minimise water usage.
- Policy of mitigation, minimisation and rehabilitation.

Social / Community

- Policy in place to support local procurement and employment wherever practical.
- Support community events and activities developing a social licence to operate.
- Generate training, business and work opportunities for Traditional Owners.
- Pursue downstream processing options to ensure value add and skills development.

Governance

- Instilling a culture of high ethical standards throughout the group and its activities.
- Aim to always operate in a safe and respectful manner.
- Focus on active risk management throughout the business.
- Develop, nurture and maintain our people.





Strategic plan

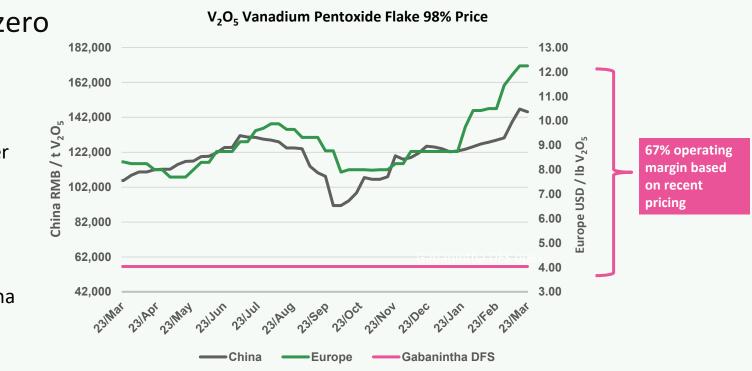
To produce strategic technology metals that reduce emissions and enable emissions free power

Vanadium



A critical mineral supporting net zero

- Application in large-scale batteries (VRFB) that don't degrade over time, ideal for support of renewable energy, grid stabilisation.
- Vanadium also has a role to play enabling higher quality, stronger steel, lowering emissions.
- Including vanadium in rebar represented 1.5% saving of the total 2019 CO₂ emissions from Chinese industrial processes¹.
- Tightening market on steel consumption in China and improving demand in Europe and USA.



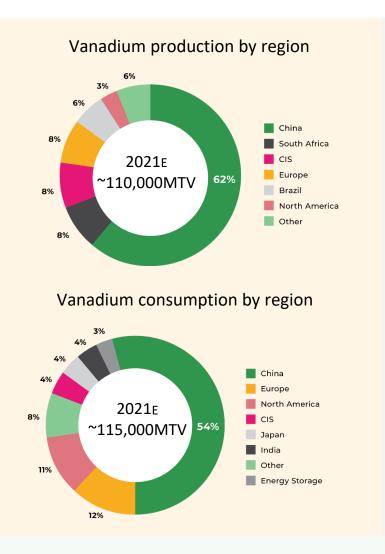
"We see significant growth in demand for vanadium - which we foresee due to its growing use in high grade steel and flow batteries."

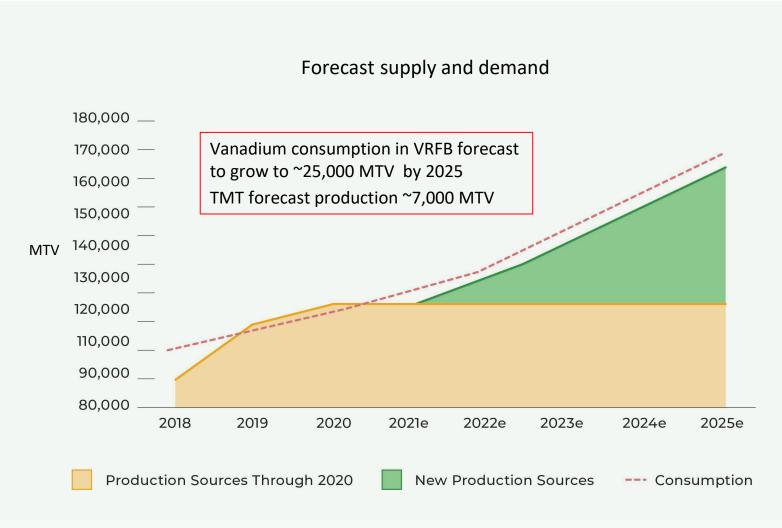
Sir Mick Davis, former Xstrata plc CEO

ASX:TMT









Source: TTP Squared Inc.

ASX:TMT 1

Vanadium Redox Flow Batteries

TECHNOLOGY METALS AUSTRALIA LIMITED

Enabling the future of green energy – safe, stable, long duration storage



No Degradation

Performance remains constant with excellent long term charge retention



Low Energy Cost

Over its 20+ year lifespan, VRFB technology offers the lowest cost per kWh stored (LCOE)



Safety

The vanadium electrolyte is water based and is totally non-flammable



Sustainability

The vanadium is fully reusable and recyclable at end of the battery life



Long Life

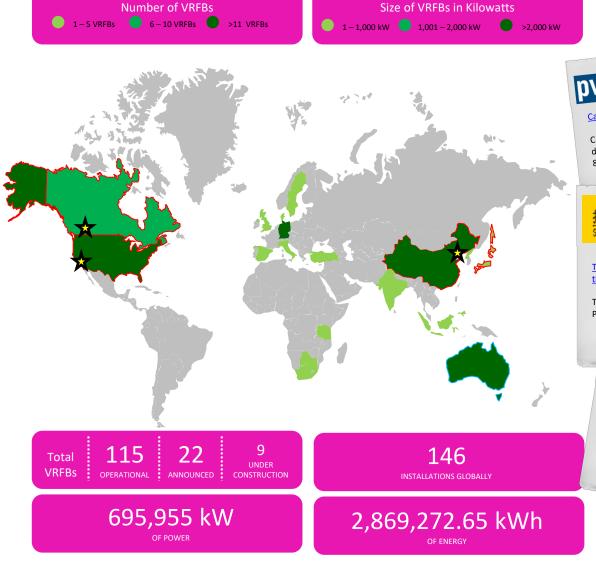
VRFB's can easily last more than 20 years with very high cycle life (up to 20,000 cycles)

ACCELERATING GLOBAL VRFB ROLL-OUT



Vanadium Redox Flow Battery (VRFB) technology is increasingly being deployed across the globe

	Country	VRFBs	kW	kWh
	Australia	13	1.356,50	6.333,90
0	Barbuda	1	3.000.00	12.000.00
	Botswana	1	112,00	560,00
0	Canada	3	2.500,00	10.000,00
	China	38	597.568,50	2.457.269,00
	Czech Republic	3	47,00	209,90
	Denmark	3	40,00	260,00
	Germany	17	1.840,00	87.310.00
	Hungary	1	10	40,00
	India	4	155,00	740,15
	Indonesia	1	400,00	500,00
	Italy	6	1.131.00	4.610.00
0	Japan	6	2430,00	7.861,00
	Kenya	1	140,00	560,00
	Netherlands	1	10,00	80,00
	Portugal	1	5,00	60,00
	Singapore	1	60,00	2.000,00
	Slovakia	2	107,00	640,00
	Slovenia	1	10,00	45,00
	South Africa	2	745,00	2.950,00
	South Korea	4	1.250.00	4.900,00
	Spain	3	220,00	B00,00
	Sweden	1	210,00	1.800.00
	Switzerland	2	800,00	460,00
	Talwan	1	460,00	750,00
	Turkey	1	10,00	40,00
	UAE	1	10,00	40,00
	United Kingdom	5	805,00	5.180,00
	United States	22	80.668,00	261,373,70



pv magazine

Canada's largest solar-powered vanadium flow battery

Canada-based VRFB manufacturer Invinity Energy Systems and Canadian renewable energy developer Elemental Energy have announced the construction of a 21 MW solar plant coupled to 8.4 MWh of VRFB capacity at Chappice Lake, in Cypress County, in Canada's Alberta province.

S&HU.com

17 February 2022

The World's Largest 100MW VRFB Energy Storage and Peak Shaving Power Station Has Entered the Single Module Commissioning Stage

The power station is the first phase of the "200MW/800MWh Dalian Flow Battery Energy Storage Peak Shaving Power Station National Demonstration Project".



ogrid project using vanadium redox flow battery

San Diego Gas & Electric (SDG&E) and Sumitomo Electric (SEI) completed a zero-emissions Sail Diego Gas & Electric (SDG&E) and Sumitomo Electric (SEI) completed a zero-emissions microgrid pilot project using a VRFB in the Bonita community in south San Diego County. The 2MW VRFB at the heart of the demonstration project can store 8MWh of energy, potentially

12





TMT - Part of Australia's green energy solution

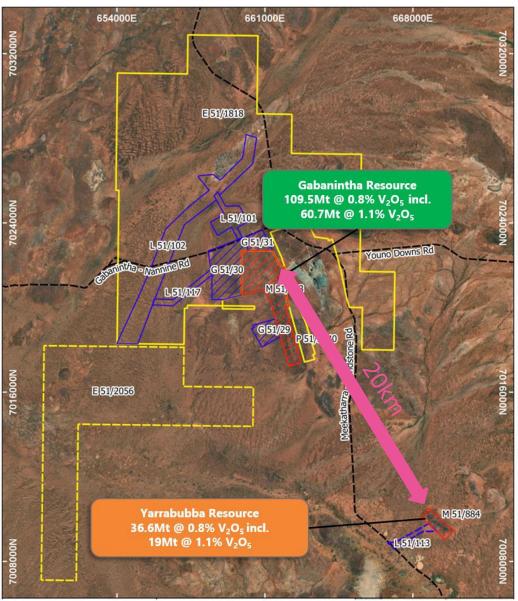
- Collaborating with Japanese company LE System to develop vanadium electrolyte production in Australia using TMT's high purity vanadium.
- Vanadium electrolyte business plan being deployed:
 - Production centres contemplated on western and eastern seaboards.
 - Competitive advantage as a very low-cost primary producer of high purity vanadium.
 - Long term stable supplier delivering certainty for VRFB developers.
 - Significant political support for decarbonization opportunities.
- Discussions initiated with VRFB manufacturers with regards to the establishment of Australian VRFB deployment.
- Evolution of the MTMP from a high purity V₂O₅ producer into downstream applications forms part of TMT's sustainability strategy.



Murchison Technology Metals Project



Targeting +25 year life based on M&I resource of 50.2Mt at 0.9% V₂O₅



Gabanintha Vanadium

- Large, long-life high purity vanadium project
- Lowest cost quartile at US\$4.04/lb V₂O₅
- Average annual EBITDA of A\$255 million
- Key environmental approvals well advanced
- Site of integrated processing facility

Yarrabubba Vanadium

- High grade V₂O₅ in magnetite concentrate
- Titanium by-product from tails stream
- Potential to materially enhance project economics
- Very shallow weathering
- Thick high grade zones at surface

Integration Study

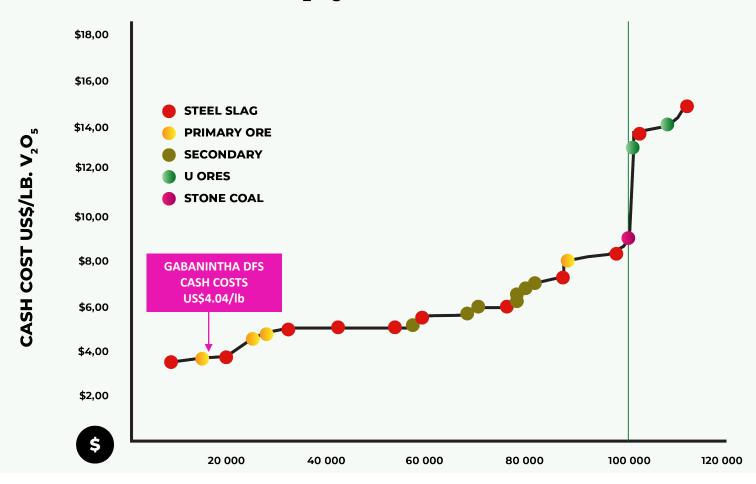
- Optimise sequencing of orebody development
- Updated MTMP Ore Reserve estimate
- Incorporation of titanium circuit for Yarrabubba ore
- Define life of mine production profile
- Study level allows direct progression to project implementation

Lowest Quartile Cash Costs





2020 V₂O₅ CASH COST CURVE



Timetable & News



Mining leases - granted Bulk sample generation Infill Resource drilling Mineral Resource update Yarrabubba metallurgical testwork H1 2022 H1 2022 Resource upgrade drilling H1 2022 Process plant design optimisation Yarrabubba ore reserve update Q2 2022 Q2/Q3 2022 Integration study completion Q3 2022 **Environmental approval** Project development decision Q4 2022



Murchison Technology Metals Project



Key project partners













Federal Government

Northern Australia Infrastructure Facility (NAIF)

Export Finance Australia (EFA)

Critical Minerals Facilitation Office (CMFO)

WA Government

Lead Agency Support

Future Battery Industry CRC

Supporting downstream processing.

WA EPA

Environmental approvals

Constructive consultation

APA

Gas transportation agreement

Lower gas transportation costs; access to emerging Perth Basin gas fields.

FLSmidth

Equipment vendor engagement

Kiln supply agreement executed.

Ongoing market engagement for product offtake / funding options

CNMNC, LE System, Shaanxi Fengyuan, Big Pawer.

A Brighter Future is Right Here





Globally Significant

project with outstanding economics located in a Tier 1 jurisdiction

Critical Metals

to deliver critical green minerals that support a cleaner future

Team in place

focused on a development strategy to maximise shareholder value

Strategic Investor

RCF VII with long-term focus on supporting project development

Delivering

on project development underpinned by high quality technical work

Stable

operating environment with excellent infrastructure and access





Come visit us at Booth 18

Ian Prentice

Managing Director



ian@tmtlimited.com.au

Suite 9, 330 Churchill Ave Subiaco WA 6008, AUSTRALIA

Ph: +61 8 6489 1600 Fax: +61 8 6489 1601



www.tmtlimited.com.au



@TechnologyMetal