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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.

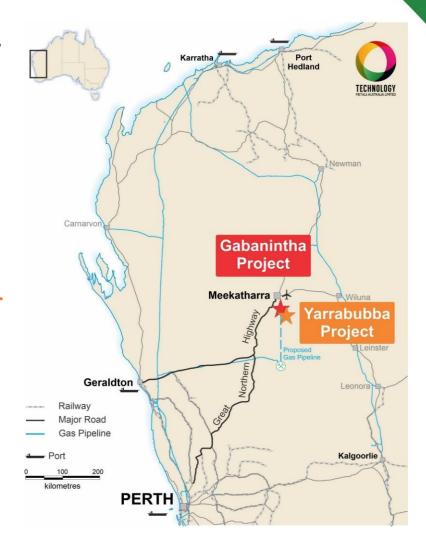
The information in this report that relates to the Processing and Metallurgy for the Yarrabubba and Gabanintha projects is based on and fairly represents, information and supporting documentation compiled by Mr Brett Morgan of METS Engineering Group Pty Ltd. Mr Morgan is a Member of The Australasian 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 as defined in the 2012 edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. 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.

All currency amounts are in AUD\$ unless stated otherwise.



Why Invest in TMT?

- Strategic Commodities in a Tier 1 Jurisdiction.
- Gabanintha Vanadium Project DFS¹ delivered large scale, long life, lowest cost quartile, high purity Tier 1 vanadium project.
 - EBITDA A\$2,776 million over initial 16 years.
 - NPV_{8% pre tax} **A\$663** million at US\$8.78/lb V_2O_5 .
 - Offtake for up to 75% of average annual output.
- Yarrabubba Iron-Vanadium Project a near term modest capital development project to unlock the Gabanintha value.
 - Proposed² 1.5Mtpa of high grade iron ore with vanadium credit.
 - DFS on track for delivery in Q4 2021.
- Granted mining leases, environmental approvals on track.
- Regionally / nationally significant projects in proven mining region.
- Implementing staged cost effective development approach to minimise initial capital and maximise benefits for stakeholders.



^{1 -} TMT ASX announcement 21 August 2019 for full details of the DFS: Financial Metrics at long term historical average price of US\$8.78/lb V₂O₅

^{2 -} TMT ASX announcement 4 May 2021

Corporate Overview

TMT

ASX Code

\$54.0m

Market Cap
(as at 10 August 2021)

18.7m

Unlisted Options¹

(various exercise)

\$5.59m

Cash (as at 30 June 2021)

150.2m

Shares on Issue

2.65m

Performance Rights²

 $^{^{1}}$ Includes 12.35m director and employee options – 3.9m vested, 4.1m to vest on GVP FID, 4.35m vest on YIVP hurdles 2 50% vest on Yarrabubba FID, 50% vest on first production from Yarrabubba

| Holder Name | Holding (%) |
|----------------------------|-------------|
| BNP Paribas Nominees | 10.9% |
| Great Southern Flour Mills | 9.3% |
| Retzos Group | 5.4% |
| Colin David Iles | 4.0% |
| Station Nominees | 3.3% |
| Atasa Holdings | 3.2% |
| TOTAL TOP 20 | 49.2 |

Board and Management



Ian PrenticeManaging Director



Michael Fry
Non-Exec Chairman



Michael Bourke Project Director



Manjot Singh
Process Engineer

John McDougall
Exploration Manager

Board & Management holdings - ~9.4% fully diluted















TECHNOLOGY



Building a Globally Relevant Resources Company

Focused on value creation for shareholders and the communities in which we operate and playing our role in the move to decarbonization

"TMT is working with local, state and national stakeholders to deliver long term social and economic benefits to the communities in which we live and work while minimising impact to the environment"

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.



Vanadium – a Critical Mineral Supporting Net Zero



"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

- Vanadium has an important role to play strengthening steel, enabling higher quality steel, lowering emissions.
- It is also used in very large scale batteries (VRFB) that don't degrade over time, ideal for support of renewable energy.
- Tightening market with consumption in steel in China and improving demand in Europe and North America.
- COVID-19 impacts stimulus spending on infrastructure and focus on renewable energy / storage.



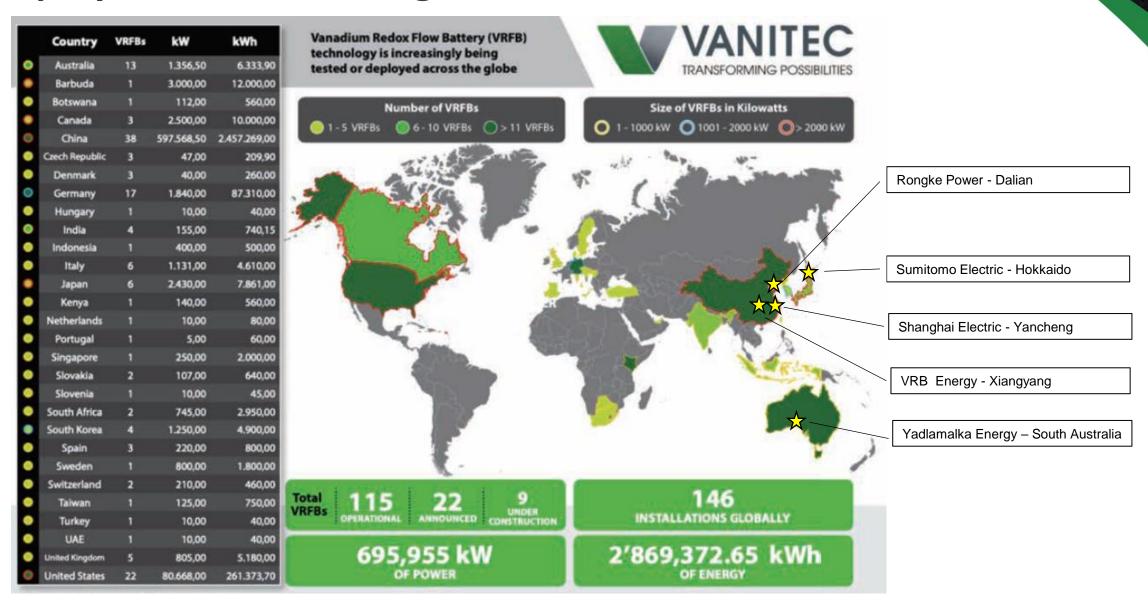
TECHNOLOGY

✓ VRFB's – Enabling the Future of Green Energy





Deployment Accelerating on Path to Zero Carbon Future





Recent and Planned VRFB Instalments

China is expected to install between **30 and 60 GWh of new energy storage** capacity by 2030. At \sim 9.25 tonnes of V_2O_5 per MWh of VRFB this corresponds to extra demand of **28,000 – 56,000 tonnes** V_2O_5 per year during 2021 to 2030 – a **15 to 30% increase on** V_2O_5 **2020 output**.



Rongke Power's 200MW / 800MWh Dalian VRFB is in commissioning

VRB Energy plans to build 100MW / 500MWh Xianyang VRFB





Shanghai Electric plans to build 100MW / 400MWh Yancheng VRFB

Sumitomo Electric building 51MWh VRFB linked to wind farm in Hokkaido

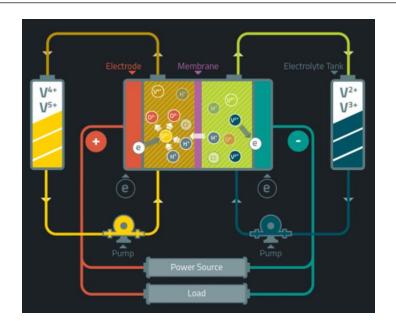




JV established to build a 3 GWh VRFB factory in Saudi Arabia

Invinity Energy actively deploying VRFB's in UK, North America & Australia





"It is clear that momentum is building for the adoption of Invinity's technology......We are now consistently seeing vanadium flow batteries recognised as a robust, reliable and proven way of making renewable energy truly dispatchable at grid scale." Larry Zulch, Invinity CEO



YARRABUBBA IRON-VANADIUM PROJECT

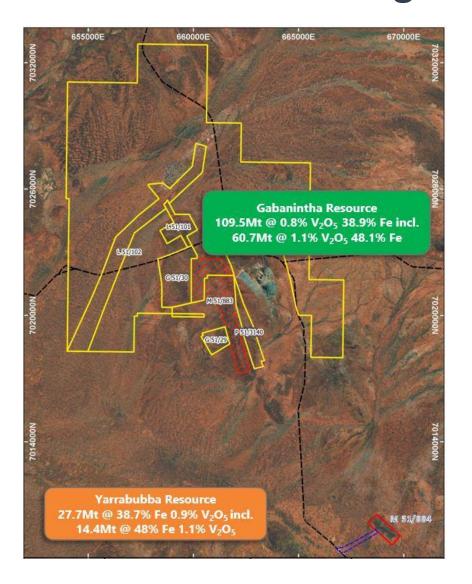
PREMIUM IRON ORE PRODUCT INTO A BOOMING MARKET





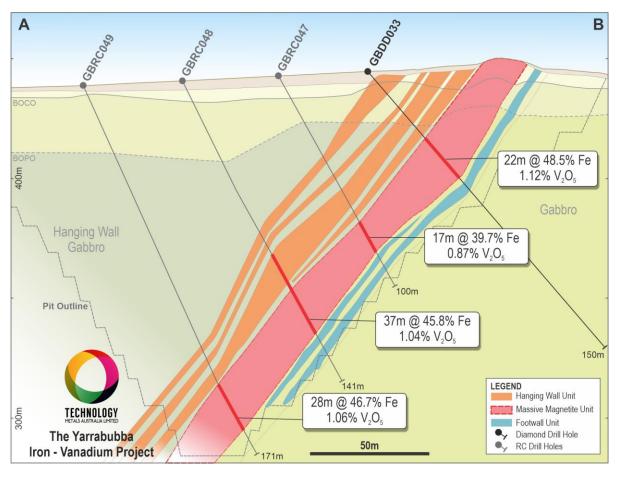
Yarrabubba - Iron Ore Product to Attract Premium Pricing

- Proposed¹ 1.5Mtpa of high grade, high purity iron ore (+ vanadium) magnetite product.
- 62.8% Fe and 1.66% V₂O₅ at 75-micron grind size with mass recovery of 49.6%.
- Low levels of SiO₂, Al₂O₃, S and P.
- Steel industry paying premium for high iron, low impurity feedstock.
- Titanium by-product at >47% TiO₂ from tails.
- High titanium recovery using standard gravity; product upgraded with magnetic separation.
- TZMI estimate product highly marketable and would achieve US\$140 – US\$180/tonne FOB.





Near Term, Low Risk Development Project



- Simple CMB flowsheet to deliver high purity iron ore at 75 - 90 micron grind.
- Key differentiators for Yarrabubba:
 - ✓ High in-situ iron grades
 - ✓ Very high mass recoveries
 - ✓ Low risk processing
 - ✓ Simple open pit mining
 - ✓ High quality product(s)
- Gabanintha DFS provides significant advantage in progressing development of Yarrabubba.
- CMB circuit to be built at Gabanintha –
 benefitting longer term Project development.
- Staged development strategy complementary to Gabanintha.



Yarrabubba Development Activities

Deliverables to support Yarrabubba development:

- Mining Leases granted
- Bulk sample generation **done**;
- Logistics, haulage routes, port progressing;
- Gabanintha ERD draft feedback in, update submitted for formal review – August;
- Definition of CMB flowsheet preliminary flowsheet done;
- Resource infill/extension RC drilling done;
- Resource upgrade Q3 2021;
- Reserve estimation Q3 / Q4 2021;
- Pilot testwork Q3 / Q4 2021;
- Environmental submissions for Yarrabubba Mining Approvals progressing.



GABANINTHA VANADIUM PROJECT

One of the Highest Grade Undeveloped Vanadium Deposits in the World









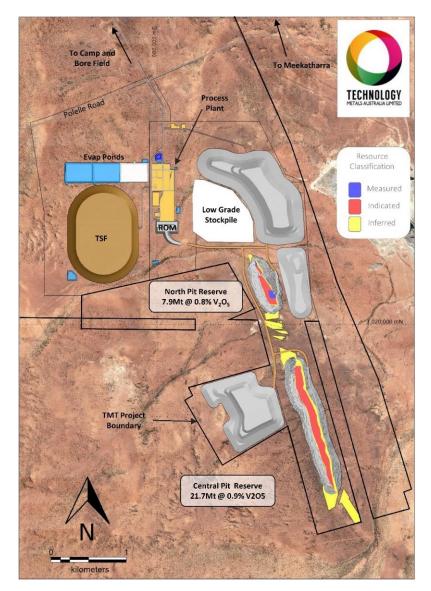








Gabanintha - World Class Resource - Development Ready



- Technically robust DFS delivers outstanding project financial metrics.
- Life of mine **revenue of A\$5.7Bn** at US\$8.78/lb V_2O_5 .
- Average annual EBITDA of A\$175 million.
- Lowest cost quartile operating costs at US\$4.04/lb V₂O₅.
- Initial 16 year mine life on Ore Reserve of 29.6Mt at $0.88\% \text{ V}_2\text{O}_5$.
- Average annual production of 27.9Mlb premium +99% purity product feeding the green revolution.
- Ore body characterised by very shallow oxidation profile.
- Mining licences granted, environmental approvals on track.



Customer / Partner Engagement

CNMNC a subsidiary of China Nonferrous Metal Mining Group Company.

- Binding take-or-pay offtake for 2,000Tpa
 (4.4Mlb pa) ~16% of annual production.
- Three year term with three-year extension.

Shaanxi Fengyuan offtake MOU over 3,000Tpa.

- Take-or-pay ~24% of annual production.
- Five-year term with five-year extension.

Big Pawer offtake MOU over 1,000Tpa take-orpay and up to 5,000 Tpa

LE System technical collaboration and downstream electrolyte production MOU.



Project Development Partners

- WA Government Lead Agency Support Future Battery Industry supporting downstream processing.
- NAIF engagement part of strategic funding approach.
- Gabanintha environmental approvals constructive consultation with EPA.
- Gas transportation agreement with APA lower gas transportation costs; access to emerging Perth Basin gas fields.
- Equipment vendor engagement FLSmidth kiln supply agreement executed.
- Ongoing market engagement for product offtake / funding options Sinosteel,
 CNMNC, Shaanxi Fengyuan, Big Pawer, LE System.













ESYSTEM Co. Ltd.



Investment Case

- ✓ **Leveraged** to delivery of critical minerals to support emissions reduction goals.
- ✓ **Delivering** on project development underpinned by high quality technical work.
- ✓ Globally Significant projects with robust economics and scope to stage funding.
- ✓ **Stable** operating environment with excellent infrastructure and access to services.
- ✓ **Team in place** focused on staged development strategy to maximise shareholder value.





FOLLOW US AS WE CREATE VALUE FOR SHAREHOLDERS



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One of the Highest Grade Vanadium Deposits in the World*

- Global combined resource of 137.2Mt at 38.9% Fe and 0.9% V₂O₅
- High grade resource of 75.1Mt at 48.1% Fe and 1.1% V₂O₅ in consistent basal massive magnetite
- Gabanintha Vanadium Project Proven and Probable Reserve of 29.6Mt at 0.88% V₂O₅ at extremely high 98% tonnage conversion
- Yarrabubba Project maiden Probable Reserve of 9.4Mt at 45.3% Fe and 0.97% V₂O₅



29.6Mt @ 0.88% V₂O₅

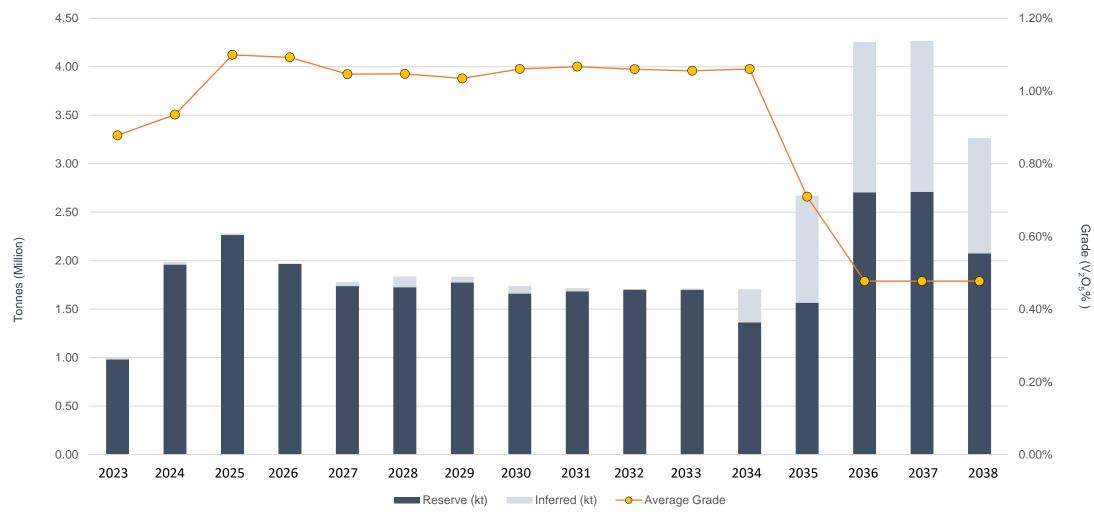
| Material Type | Classification | Mt | V ₂ O ₅ % | Fe% | Al ₂ O ₃ % | SiO ₂ % | TiO ₂ % | LOI% | P% | S % |
|---------------------------------------|--------------------|-------|---------------------------------|------|----------------------------------|--------------------|--------------------|------|-------|------------|
| Massive Magnetite | Measured (North) | 1.2 | 1 | 44.7 | 6.2 | 10.4 | 11.4 | 0 | 0.009 | 0.2 |
| | Indicated (North) | 18.5 | 1.1 | 49.1 | 5.2 | 5.8 | 12.9 | -0.1 | 0.007 | 0.2 |
| | Indicated (South) | 7.3 | 1.1 | 49.2 | 5.1 | 5.8 | 12.6 | -0.6 | 0.004 | 0.3 |
| | Total Indicated | 25.8 | 1.1 | 49.1 | 5.1 | 5.8 | 12.8 | -0.3 | 0.007 | 0.2 |
| | Inferred (North) | 41 | 1.1 | 47.7 | 5.6 | 7.1 | 12.6 | 0.3 | 0.008 | 0.2 |
| | Inferred (South) | 7.1 | 1.1 | 46.9 | 5.6 | 7.4 | 12.1 | 0.5 | 0.005 | 0.3 |
| | Total Inferred | 48.1 | 1.1 | 47.6 | 5.6 | 7.2 | 12.5 | 0.3 | 0.008 | 0.2 |
| | Massive Global | 75.1 | 1.1 | 48.1 | 5.5 | 6.8 | 12.6 | 0.1 | 0.007 | 0.2 |
| Disseminated / Banded Magnetite | Indicated (North) | 10.3 | 0.6 | 28.6 | 13.1 | 25.5 | 7.5 | 3 | 0.03 | 0.2 |
| | Indicated (South) | 2.3 | 0.7 | 33.1 | 9.5 | 20.6 | 8.5 | 2.3 | 0.014 | 0.3 |
| | Total Indicated | 12.6 | 0.6 | 29.5 | 12.5 | 24.6 | 7.7 | 2.8 | 0.027 | 0.2 |
| | Inferred (North) | 38.5 | 0.5 | 27.1 | 12.7 | 27.4 | 6.9 | 3.3 | 0.027 | 0.2 |
| | Inferred (South) | 11 | 0.6 | 27.7 | 13 | 25.9 | 7 | 2.7 | 0.015 | 0.3 |
| | Total Inferred | 49.5 | 0.5 | 27.2 | 12.8 | 27.1 | 6.9 | 3.2 | 0.024 | 0.2 |
| | Diss / Band Global | 62.1 | 0.6 | 27.7 | 12.7 | 26.6 | 7.1 | 3.1 | 0.025 | 0.2 |
| Combined | Global Combined | 137.2 | 0.9 | 38.9 | 8.7 | 15.7 | 10.1 | 1.5 | 0.015 | 0.2 |

*Note: The Mineral Resources were estimated within constraining wireframe solids using a nominal 0.9% $V_2O_5\%$ lower cut-off grade for the massive magnetite zones and using a nominal 0.4% $V_2O_5\%$ lower cut-off grade for the banded and disseminated mineralisation zones. The Mineral Resources are quoted from all classified blocks within these wireframe solids above a lower cut-off grade of 0.4% $V_2O_5\%$. Differences may occur due to rounding.

^{* -} Refer TMT ASX announcements dated 29 March 2019 and 1 July 2020 for full details of the mineral resource estimation.



ROM Feed in Excess of 1%¹



Annual Crusher Feed Showing Feed Grade and Tonnage plus Distribution of Inferred Mineral Resources (Process feed post 2034 sourced from low grade stockpiles built up over LOM – to be displaced with high grade feed from Southern Tenement)



Pilot Test Work De-Risks Project and Confirms Scalability



CONFIRMS VERY HIGH YIELD TO MAGNETIC CONCENTRATE

11.5T bulk sample processed through Crushing Milling Beneficiation pilot plant

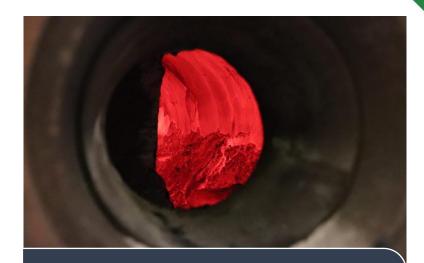
Confirmed very high yield to magnetic concentrate with low deleterious elements



PILOT SCALE KILN TESTWORK CONFIRMS VERY HIGH RECOVERY RATES

7.5T of magnetic concentrate processed through pilot scale rotary kiln delivered average vanadium recovery of 88.6%

Confirms end-to-end vanadium recovery of 77% for fresh massive magnetite ore



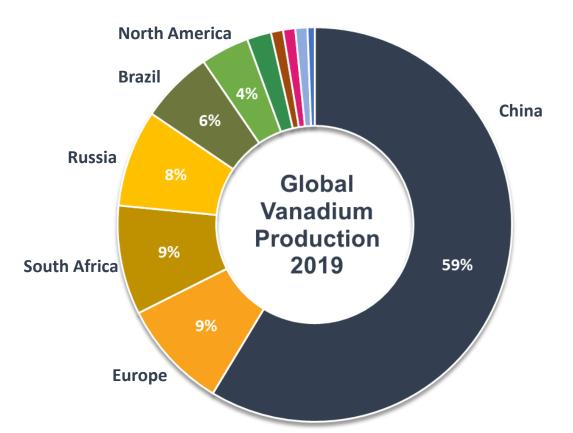
DFS INCORPORATES KILN DESIGN AND OPERATING PARAMETERS

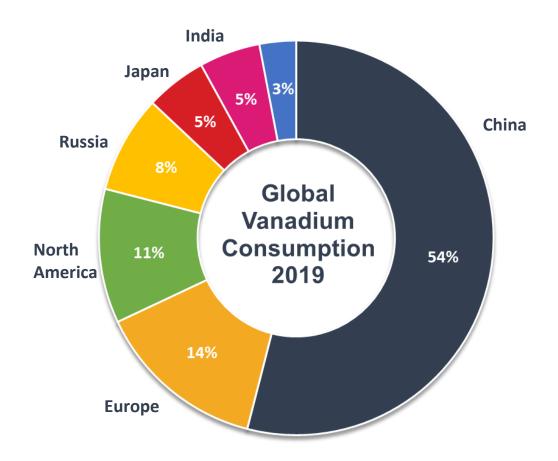
Pilot scale continuous salt roast / kiln testwork completed by kiln experts
FLSmidth

FLSmidth provided kiln design and operating parameter inputs for DFS



Vanadium Supply / Demand

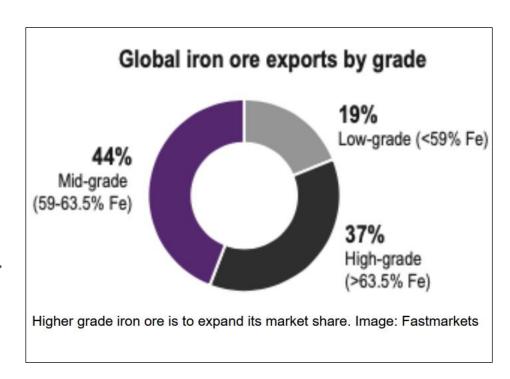




- Europe, North America, Japan and India net importers.
- Indian consumption set to grow significantly in near to mid term.
- Currently no production from Australia



- Iron ore prices (62% Fe, CFR China) have increased from US\$63/t to US\$180/t over last 12 months.
- China produced 1.05 Bn tonnes steel in 2020; MQ21 output 15% higher than MQ20. Mills increasing output on highprofit margins despite government environmental rules.
- Iron ore producers struggled to keep up with strong demand in MQ21 due to operational challenges and weather issues.
- Prices for 63.5% Fe iron ore (delivery Tianjin) up to >US\$190/t. Premiums for higher purity increasing due to desire for higher quality with lower environmental emissions.
- High grade iron ore with Fe >63.5% is set to expand by 17.5% over the decade of the 2020s and attract higher prices than standard and lower grade iron ore (Fastmarkets, April 2021).
- Customers are willing to pay a premium for higher grade iron ore with lower impurities such as alumina and silica.





Sinosteel Australia Letter of Intent

- Sinosteel Australia part of the WA business community since 1991.
- Lol covers negotiation of a life-of-mine iron-vanadium offtake.
 - Annual quantity of up to 1.5Mtpa
- EPC contract to be negotiated with Sinosteel Equipment & Engineering Co., Ltd (MECC).
- Technical collaboration with MECC supported development of indicative CMB flowsheet.

