

ASX CHAPTER 5 COMPLIANCE AND CAUTIONARY AND FORWARD-LOOKING STATEMENTS

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ASX Listing Rules 5.19 and 5.23

ASX Listing Rule 5.19

The information in this Presentation relating to production targets, or forecast financial information derived from a production target, is extracted from the announcement titled "Bankable Feasibility Study for the Australian Vanadium Project" released to the ASX on 6 April 2022 which is available on the Company's website www.australianvanadium.com.au.

The Company confirms that all material assumptions underpinning the production target, or the forecast financial information derived from a production target, in the original market announcement continue to apply and have not materially changed.

ASX Listing Rule 5.23

The information in this Presentation relating to exploration results and mineral resource and ore reserve estimates for the Australian Vanadium Project is extracted from the announcement titled "Bankable Feasibility Study for the Australian Vanadium Project" released to the ASX on 6 April 2022 which is available on the Company's website www.australianvanadium.com.au.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement, and that all material assumptions and technical parameters underpinning the estimates in the original market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the competent person's findings are presented have not been materially modified from the original market announcement.

Forward Looking Statements

This Presentation may contain certain forward-looking statements with respect to matters including but not limited to the financial condition, results of operations and business of AVL and certain of the plans and objectives of AVL with respect to these items. These forward-looking statements are not historical facts but rather are based on AVL's current expectations, estimates and projections about the industry in which AVL operates and its beliefs and assumptions.

Words such as "anticipates," "considers," "expects," "intends," "plans," "believes," "seeks," "estimates", "guidance" and similar expressions are intended to identify forward looking statements and should be considered an at-risk statement. Such statements are subject to certain risks and uncertainties, particularly those risks or uncertainties inherent in the industry in which AVL operates.

These statements are not guarantees of future performance and are subject to known and unknown risks, uncertainties, and other factors, some of which are beyond the control of AVL, are difficult to predict and could cause actual results to differ materially from those expressed or forecasted in the forward-looking statements. Such risks include, but are not limited to resource risk, metal price volatility, currency fluctuations, increased production costs and variances in ore grade or recovery rates from those assumed in mining plans, as well as political and operational risks in the countries and states in which we sell our product to, and government regulation and judicial outcomes. For more detailed discussion of such risks and other factors, see the Company's Annual Reports, as well as the Company's other fillings.

AVL cautions shareholders and prospective shareholders not to place undue reliance on these forward-looking statements, which relate only to events as of the date on which the statements are made.



AUSTRALIAN VANADIUM LIMITED

Why Vanadium? Industrial, critical and battery metal

Steel Alloy: Growth Market

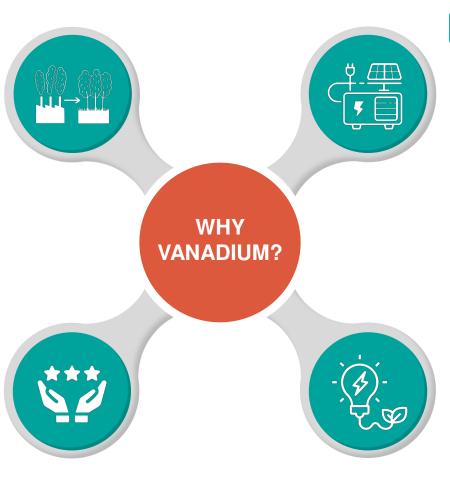
Industrial Metal

- Increased use of vanadium alloyed steels is a force multiplier in reducing carbon footprint
- 20 years of continuous demand growth, set to accelerate as higher specific V use continues to increase

Quality of Life: Growth Market

Critical Metal

- Vanadium contributes to sustaining and improving our quality of life. It is used extensively in aerospace, defence and chemical catalysts
- Over 75% of global vanadium supply currently sourced from China, Russia, and South Africa
- There is a case to diversify supply chains toward stable, ESG credentialled jurisdictions



Energy Storage: Growth Market

Battery Metal (Horizon 1 VRFBs)

- Vanadium redox flow batteries (VRFBs) are a mature and proven technology ideally positioned to meet demand for long duration storage.
- 2% of V market historically, expected to be >10% in 2023
- More VRFB capacity has been commissioned in the last 12 months than the entire prior 40 year history of VRFB technology combined

Innovation: Future Upside

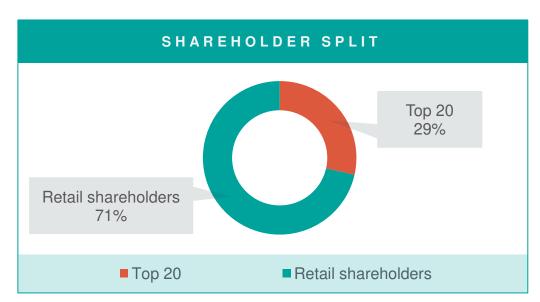
Battery Metal (Horizon 2 Lithium-ion)

- Multiple advanced pre-commercialisation technologies showing significant economic and technical merits of vanadium use in lithium-ion cathodes and anodes
- Potential to improve Li-ion batteries including energy density, charge rate, cycling, and safety
- Vanadium use in solid state lithium metal batteries is another exciting application for vanadium under research

CORPORATE OVERVIEW

Australian Vanadium

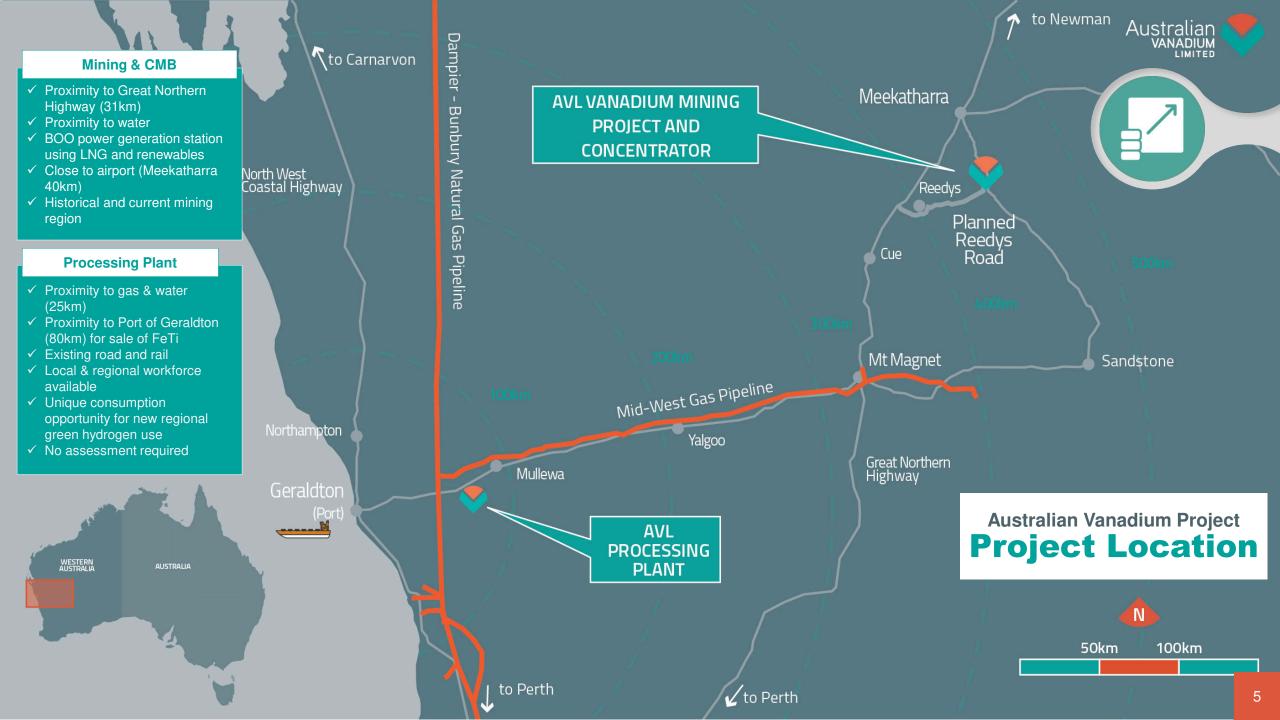
KEY STATISTICS AS AT	03/04/2023
Ordinary Shares on Issue	4.36b
Share Price	A\$0.037
Average Daily Traded Volume	19M (~A\$1M)
Market Cap (Undiluted)	A\$161M
Shareholders	16,360
Cash at 03/04/2023	A\$22.4M





	TOP 5 SHAREHOLDERS	%
1	Citicorp Nominees Pty Ltd (including RCF at 5.35%)	8.85%
2	BNP Paribas Nominees Pty Ltd ACF Clearstream	3.57%
3	Mr Leendert Hoeksema	2.66%
4	Kalemois Pty Ltd	1.51%
5	HSBC Custody Nominees (Australia) Ltd	1.41%





AUSTRALIAN VANADIUM LIMITED

Vanadium – consensus on demand growth



Vanadium demand to **double by 2032**, with more than 90% of this growth from Vanadium Redox Flow Batteries (VRFBs).



VRFBs will **fundamentally restructure** the vanadium supply chain.



Massive growth in batteries will **stress supply**.

'Assuming even modest growth in vanadium consumption in energy storage applications, the industry will be **challenged to meet surging demand** in the coming decade.'

TTP Squared

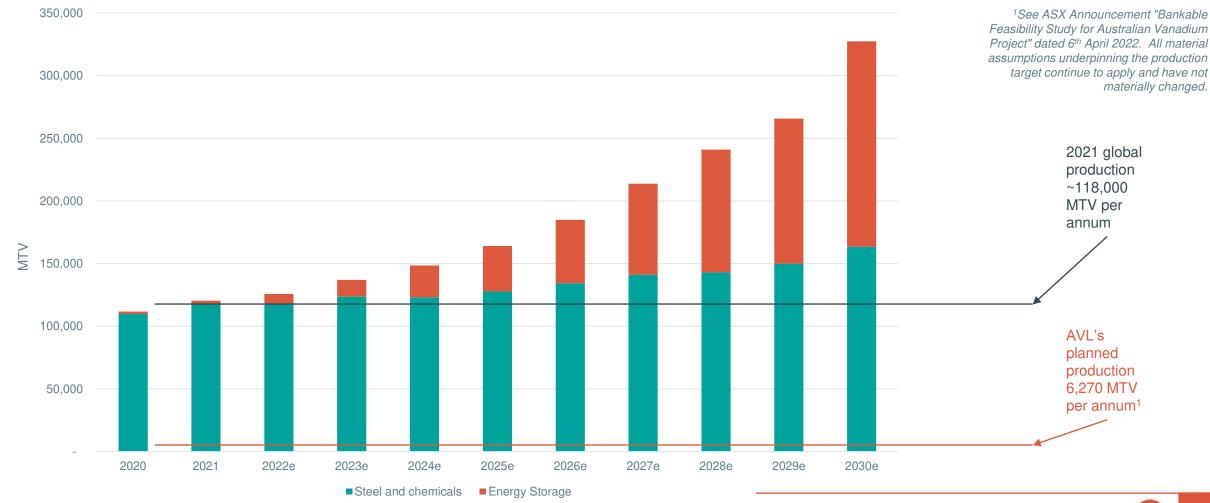
eResearch

Currently, it is estimated that the VRFB market only accounts for 3%-5% of vanadium production but the continued shift to renewable energy solutions could trigger a surge in vanadium demand and account for 20% of vanadium consumption by 2030.

Sources: Stockhead, TTP Squared, Project Blue, eResearch, Wood Mackenzie



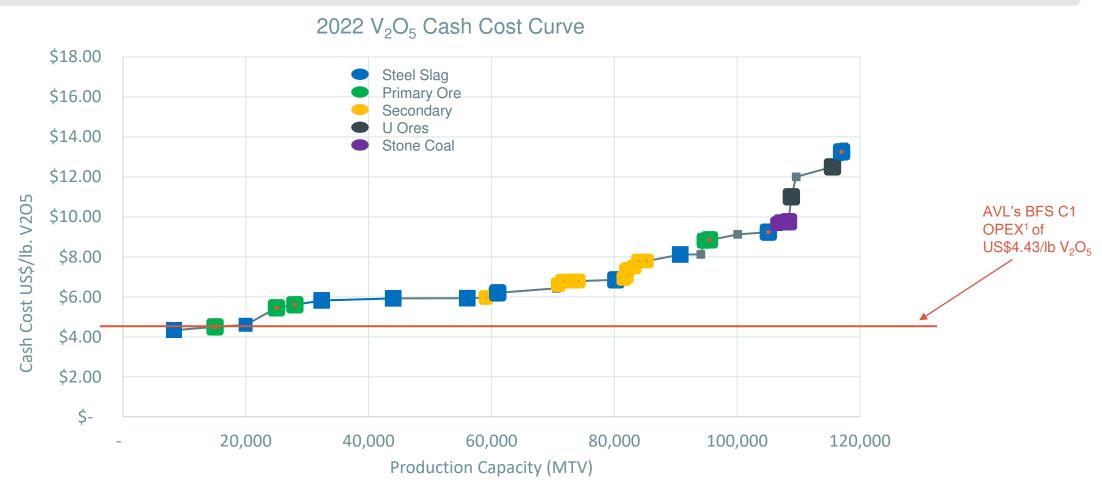
Industrial metal and battery metal demand growth



Supply curve – AVL Project well positioned



"The cash cost of the last incremental units required to satiate demand in 2022 is above US\$12.00/lb V₂O₅" – TTP Squared



Source: TTP Squared, inc.

ed.

Track Record

 Track record in raising capital and securing significant government grants to fund and build value in the company.

Why AVL?

Vertical Integration

- Industry leading product quality, LoM
- True "Pit to Battery" integration optionality

Ethically Sourced

Distinctive ability to produce an ethical, low carbon product



Asset & Scalability

- 25+ years mine life, competitive C1 OPEX
- Hub Processing Configuration: built for scalability
- Scalable Infrastructure: gas and logistics
- Scalable Feed: proximal to 1B tonnes similar ore types
- **Premium mining & processing jurisdiction**: Western Australia

Green Lights

- A recent, comprehensive BFS, advanced approvals status
- Strong relationships: \$49M MMI-C Federal Government Grant (Multiple Grants, Major Project Status), Critical Minerals Office Austrade; State Government (Lead Agency Status)
- One of the most advanced undeveloped vanadium projects in the world
- Positioned with early mover advantage and supplier of choice status in the battery market.

Collective Expertise

- Technical team in place from inception of asset development strategy
- · Commodity experience in board, executive, and technical teams

Quality of Board and AVL Team

- A future-proofed board with the right skillsets to finance, build, and operate the project and grow a globally relevant company in this commodity
- A team that can deliver with proven technical and commercial track record in vanadium, project development, operations



A TEAM THAT CAN DELIVER

International vanadium expertise Track record in project execution and operations



Board



Cliff Lawrenson Non-Executive Chair



investment



Vincent Algar infrastructure Managing **Director** listed



of publicly

companies

Daniel Harris Non-Executive Director





Miriam Stanborough Non-Executive Director





Peter Watson Non-Executive Director

40 years of experience in senior technical. project and management roles, executive experience running ASXlisted companies

Executive Team



Graham **Arvidson Chief Executive** Officer

Mineral sector experience spans vanadium and lithium project development and operations

and

banking



Richardson **Chief Operating** Officer

Over 20 years of experience in the vanadium sector and an expert in vanadium process design. commissioning and operations



Louis Mostert Chief Legal and Commercial Officer

20 years of experience in project contracting and finance, corporate advisory, mergers and acquisitions



Liesl Strachan Chief Financial Officer

More than 15 vears of financial experience in the resources sector, both in Australia and the UK

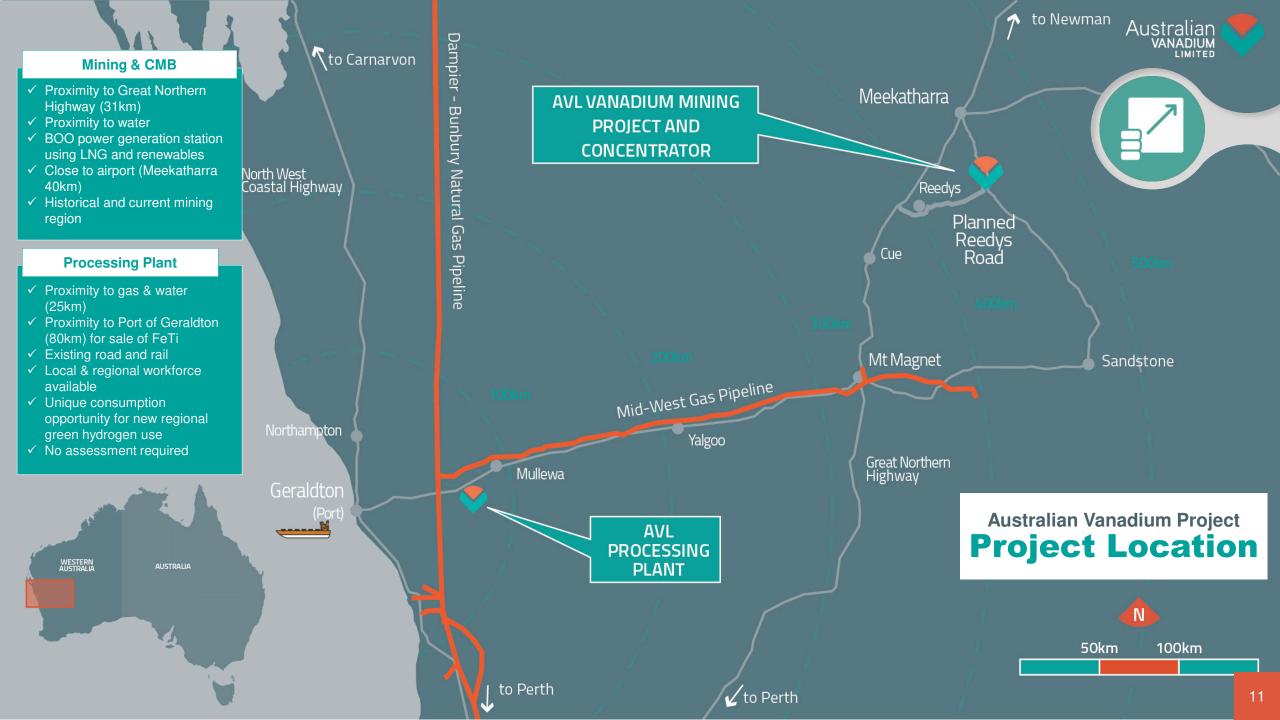


Samantha McGahan **Marketing Manager**

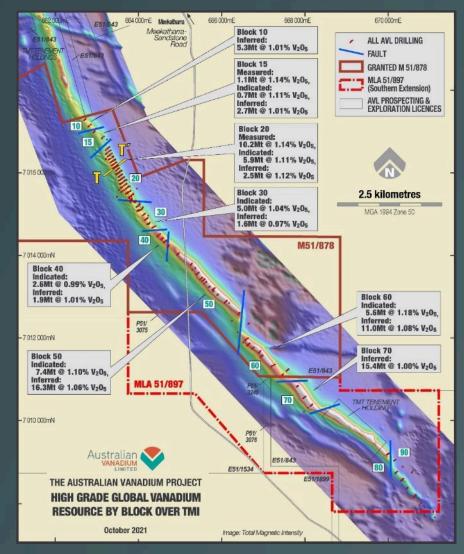
Leads marketing of **AVL and VSUN** Energy. Fosters networks in vanadium and energy markets.



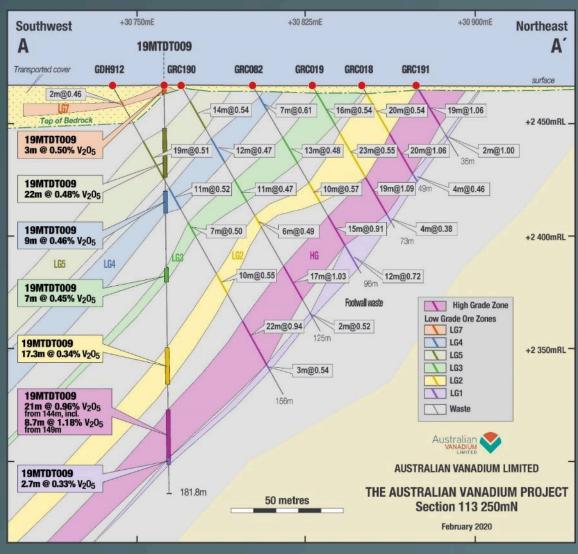




THE AUSTRALIAN VANADIUM PROJECT



Resource Total Magnetic Intensity



Section



THE AUSTRALIAN VANADIUM PROJECT

BFS – Robust Project Metrics





Note: MTV = metric tonnes vanadium

RESOURCE

Total Resource 239Mt @ 0.73% V₂O₅

High-grade 95.6Mt @ 1.07 V₂O₅

Ore Reserve

30.9Mt @ 1.09 V₂O₅

Proved 10.5Mt @1.11% V₂O₅

Probable 20.4Mt @V₂O₅

25+ years
mine life



STRONG FINANCIAL OUTCOMES

Pre-Tax NPV_{7.5}

A\$833M

IRR

20.6%

EBITDA Annual Average

A\$175M

EBITDA Project

NPAT Project

A\$4.4B

A\$2.2B



OPEX, CAPEX, PRODUCTS

C1 OPEX US\$4.43/lb V₂O₅

PRE-PRODUCTION CAPEX US\$435M

ANNUAL V PRODUCTION 11,200t V₂O₅ (6,270 MTV)

LoM V₂O₅ Grade 99.5%

FeTi Coproduct 900,000tpa

Note: Information within this slide as detailed in ASX Announcement "Bankable Feasibility Study for Australian Vanadium Project" dated 6th April 2022. All material assumptions underpinning the production target and forecast financial information derived from a production target continue to apply and have not materially changed





Strong ESG Focus

Renewable energy strategy

- Ability to produce ethical, low carbon vanadium product, expecting to be 50% lower carbon intensity per unit of vanadium than existing co-production vanadium producers¹
- Use of solar and/or wind generation
- Use of VRFBs for energy storage
- Collaboration with ATCO for use of green hydrogen into the natural gas supply at the processing plant through ATCO collaboration
- Exploring use of electric or green hydrogen fuelled vehicles onsite and for haulage



Community relationships

- Workforce participation opportunities for Yugunga-Nya traditional owners
- Regional Engagement Manager based in Geraldton
- Sponsorship of awards and scholarships at Central Regional TAFE
- Mullewa community sponsorship
- Stephen Michael Foundation and Shooting Stars sponsorship









Governance

- Developing ESG reporting structure aligned to the developing ISSB framework through application of SASB, TCFD, and GRI reporting structures
- Experienced and competent Board of Directors
- Long term engagement with Environmental Protection Agency
- Organisational culture



AUSTRALIAN VANADIUM PROJECT

Vertical Integration

Pit to Battery

Vertical integration optionality can give AVL the ability to produce the world's highest quality vanadium products tailored to our customers' needs from steel (low purity requirements) through to speciality chemicals (ultra high purity).

In addition to production, AVL will seek to participate economically in the vanadium value chain through partnerships and joint ventures



Vanadium Electrolyte

Project Update

- 33MWh per annum electrolyte plant under development
- AVL to be an early mover in electrolyte manufacture in Australia
- Location secured in Perth, Western Australia
- Detailed design complete
- Long lead equipment ordered
- Utilises proven US Vanadium technology



ASX:AVL



Left: U.S. Vanadium LLC electrolyte plant in Arkansas, USA

Below: Design for AVL electrolyte plant



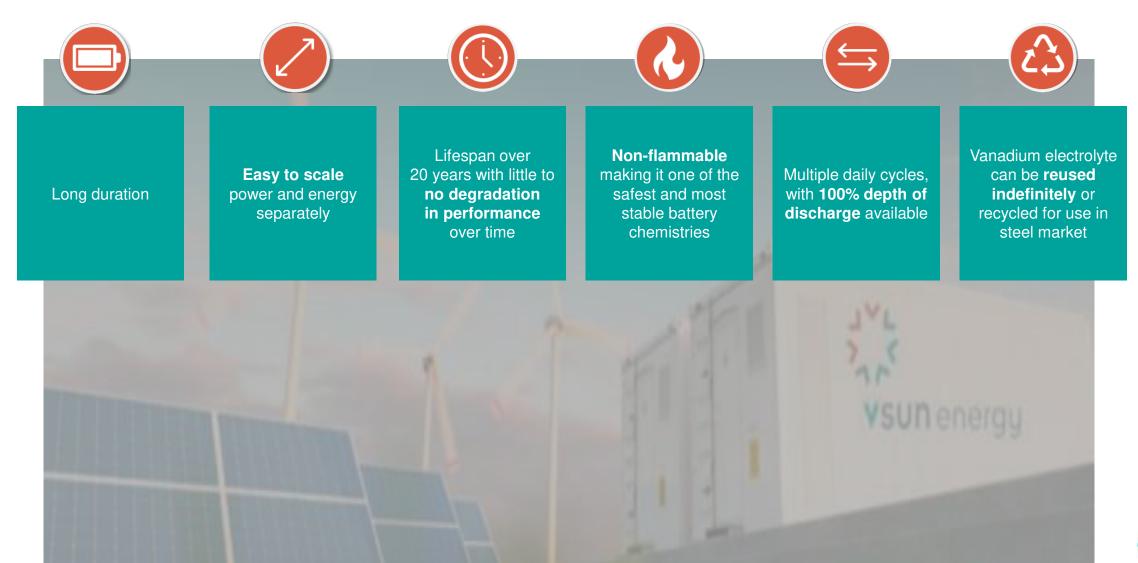
VUS VANADIUM



VANADIUM ELECTROLYTE MANUFACTURE



VRFB: Technical merit



VSUN Energy: Current Projects Overview



VSUN Energy is a 100% owned subsidiary of ASX-listed Australian Vanadium Limited (ASX: AVL)

Current Projects

- Water Corporation successful completion of trial of a 5kW/30kWh vanadium redox flow battery (VRFB) to power a chlorinator
- IGO (ASX: IGO) installation of an 80kW/300kWh VRFB standalone power system (SPS) to provide power to a bore pump at the Nova Nickel Operation (pictured right, currently being tested in Perth)
- Priest Bros Orchard, Victoria installation of a 20kW/80kWh VRFB
- Consultancy work for major mining clients underway
- Tender applications underway
- Well positioned to position in a significant future pipeline

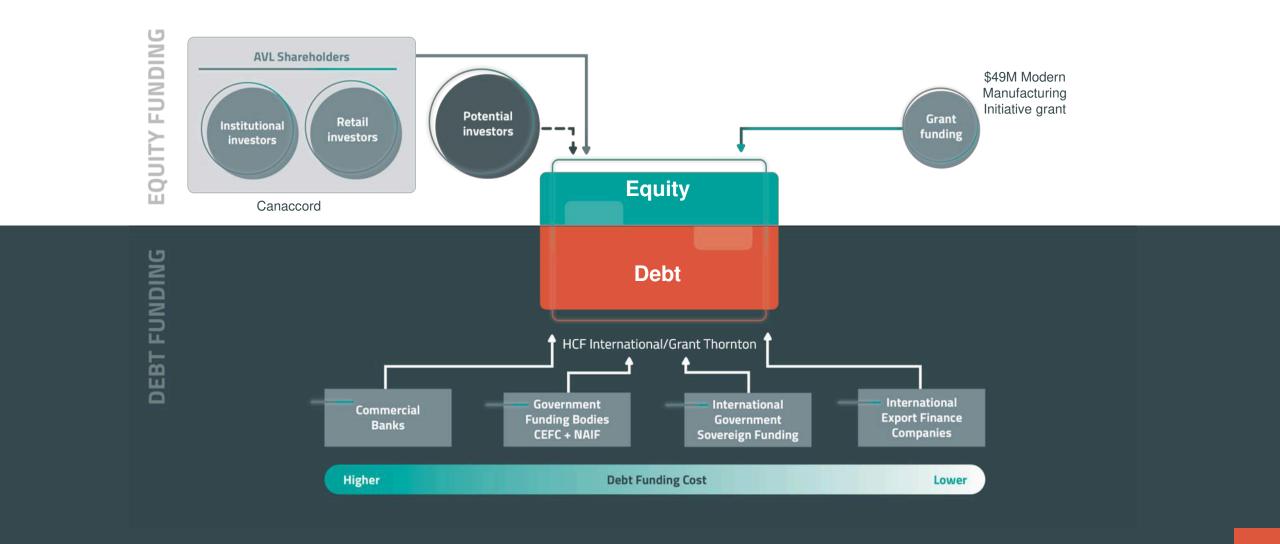


AUSTRALIAN VANADIUM PROJECT

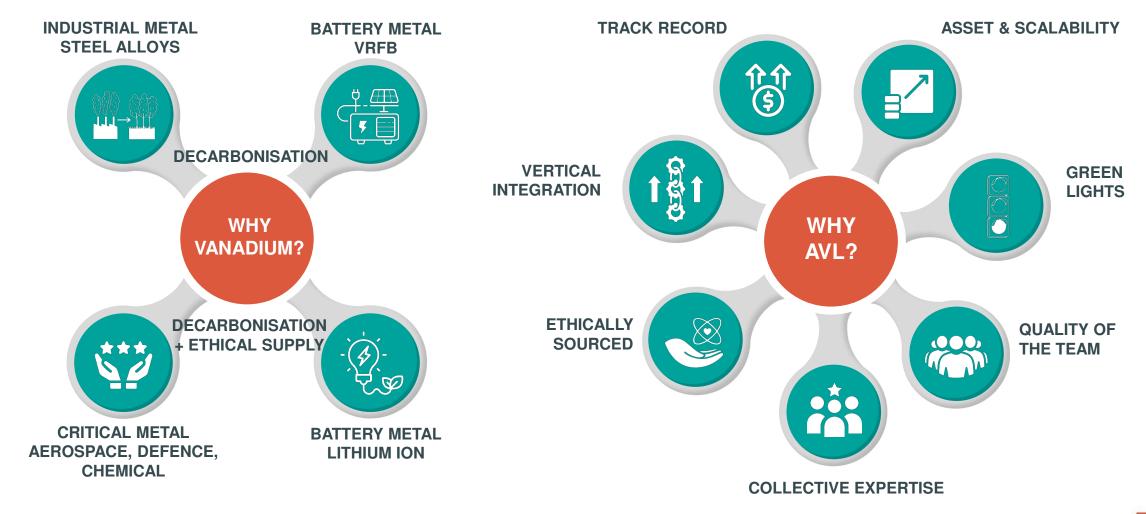
Project Delivery Path

03 05 04 Financial Final **EPC/EPCM BFS** Close and **Production** Investment **Partnerships Completed** Construction Decision Australian Bankable Securing debt Selection of Execute FEED. Vanadium Feasibility Study financing from **EPC/EPCM** procure Limited's next undertaken at a equipment and government and contractors phase of journey high level of commercial through early commence as the world's technical and lenders. engagement with construction fourth primary established Tier1 financial detail to complete binding during 2024 vanadium enable full product offtake engineering and producer to scrutiny by debt agreements construction commence 2025 and equity groups investors

Funding model



In Summary Why Vanadium and why AVL?







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australianvanadium.com.au