POWERING THE FUTURE



ASX : RVT

INVESTOR PRESENTATION



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COMPETENT PERSON STATEMENT

Where the Company refers to the results of the Prefeasibility study, the Mineral Resource Estimate and the Ore Reserve Estimate as outlined in this presentation and as disclosed in the Independent Technical Assessment Report in the Company's Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 and released to the ASX on 9 December 2022, it confirms that it is not aware of any new information or data that materially affects the information included in that Report and that all material assumptions, including the forecast financial information, and technical parameters continue to apply and have not materially changed.

Information on historical exploration results and Mineral Resources and Ore Reserves presented in this presentation, together with JORC Table 1 information, is contained in the Company's Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 and released to the ASX on 9 December 2022.



BOARD OF DIRECTORS

JON PRICE NON-EXECUTIVE DIRECTOR

Jon has over 30 years' experience in Australia and overseas across all aspects of the industry including exploration, development, construction and mining operations in the gold and advanced minerals sectors. Jon graduated as a metallurgist and holds a Masters in Mineral Economics from the Western Australian School of Mines. He then worked in various gold and advanced mineral operations including general manager of the Paddington gold and St Ives gold operations in the Western Australian goldfields.

More recently, Jon was the founding Managing Director of Phoenix Gold Limited which was acquired by Evolution Mining Limited (ASX:EVN).

Jon is currently a director Horizon Minerals Limited (ASX:HRZ) and a former director of Kingwest Resources Limited (ASX:KWR).

He is a member of the AusIMM.

DR SHUANG (SHAUN) REN MANAGING DIRECTOR

Shaun completed his PhD in Economic Geology at the Australian National University and has over 35 years industrial experience in exploration, project assessment and feasibility studies. He has worked for a list of international mining companies including Rio Tinto, BHP and AngloGold-Ashanti in senior technical and management positions. Since 2016, Shaun has focussed on the Richmond Vanadium Project leading the team to successfully complete the Pre-Feasibility Study.

He is a member of the AusIMM.

BRENDON GRYLLS NON-EXECUTIVE CHAIR

Brendon brings extensive relationships and networks at all levels of business and government.

After 16 years as a state MP and senior cabinet minister in Western Australia his Grylls Group business has grown to include strategic consulting work within the iron ore and gold industry, civil contracting, agriculture, First Nations partnership, aviation and innovative research into carbon abatement and developing new carbon offset projects.



CORPORATE OVERVIEW

RVT ASX Code	\$23.4m Cash (as at 31/12/2022)		\$52.13m Market Cap (as at 23/1/2023)	Market Cap Shares		2.5m Performance Rights ²		
Board and Manageme	ent			Top 10 Shareho	Top 10 Shareholders			
Brendon Grylls		Independ	ent Non-Executive Chai	Central Alliance No 13 Unit Pt	BNP Paribas Nominees Pty Ltd, 2.26			
Shuang (Shaun) Ren		Managing Director			y Eld, 5.50	Tech Minerals Pty Ltd, 15.87		
Jon Price		Non-Executive Director		Pon & Mrs Woining				
Joanne Dav			dministration Manager & Company Secretary	, Ayeexeen				
Lingli (Lily) Zhao			Chief Project Enginee			Fu Chuang		
Warwick Nordin		С	hief Resource Geologis	Sinotech Mining Investments Ltd, 7.44		Holdings Ltd 13.19		
 ¹ Includes 6.5m director options and 6 2 years to 13 December 2024 ² Includes 1.8m director performance 	-	-		Horizon M Ltd, 8		Yi Jing Holdings Limited, 12.28		

² Includes 1.8m director performance rights which are escrowed for 2 years to 13 December 2024



INVESTMENT HIGHLIGHTS



World Class Project

One of the largest undeveloped oxide vanadium resources in the world capable of supporting a vanadium operation for +100 years at current throughput rates¹



Tested metallurgy with proven technology

Proven metallurgical solution via conventional processing resulting in concentrate grades of $1.82\% V_2O_5^{-1}$

Completed process flowsheet, provisional patent application lodged



Located in Queensland with good access to infrastructure

Close to existing infrastructure including gas pipeline, HV network line, major highway and railway linked to Townsville Port



PFS delivers compelling financial returns

Refining recovery at 86.1% produces average production of 12,700t V_2O_5 pa¹

At US9.60/lb V₂O₅, project generates NPV10 of A613M with IRR of 38% and payback of 3.2 years¹



Promising long-term outlook for Vanadium

Vanadium poised to play a pivotal role in commercialisation of renewable energy

Vanadium consumption for VRFBs is forecast to grow at an average 20.7% a year from 2020 - 2029²



Lower carbon footprint compared to titanomagnetite projects

Mineralisation located at average depth of 2m to 25m below surface in soft marine sediment - no drilling, blasting, grinding or roasting required¹



Critical Mineral – attracts funding

Queensland Government contributing towards constructing a vanadium common-user facility to process vanadium



Co-ordinated Project Status Awarded

The only critical minerals project to be awarded Coordinated Project status by the Queensland Government

¹ Refer RVT Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

² Outlook for selected critical minerals in Australia 2021 Report, Dept of Industry, Science, Energy & Resources, Australian Government



WHY VANADIUM

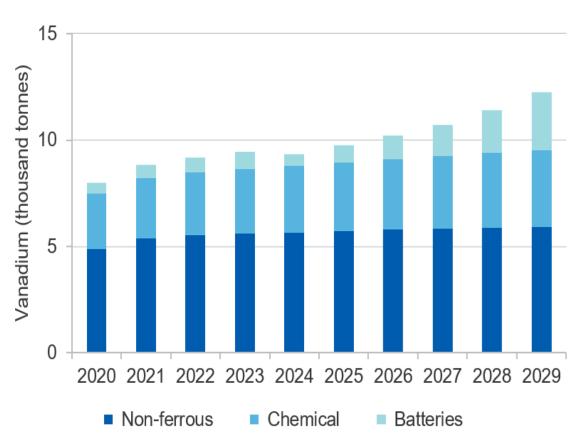
Critical Mineral

- · Listed by the Australian and US Governments as "Critical Mineral"
- China, Russia and South Africa account for almost all worldwide production
- Australian resources are 3rd largest in world, accounting for 18% of economic demonstrated resources but current production levels are negligible¹

Demand / Supply

- Majority of vanadium produced as by-product of magnetite or uranium processing - limited supply of battery material
- >90% of global vanadium supply consumed by steel mills¹
- Promising long-term potential use in vanadium redox flow batteries (VRFBs) for grid-scale electricity applications
- Consumption for batteries forecast to grow on average 20.7% a year over 2020-2029¹

Projected vanadium consumption by end-use (excluding steel)¹



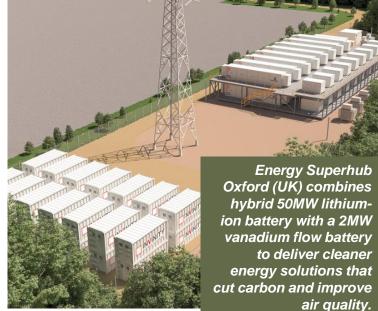
¹ Outlook for selected critical minerals in Australia 2021 Report, Dept of Industry, Science, Energy & Resources, Australian Government



VANADIUM REDOX FLOW BATTERIES (VRFBs)



China builds world's largest lithium-free battery - an 800 MWh vanadium redox flow battery.



- Adoptable energy storage system ideal for residential and commercial applications
- Megawatt capacities for the power grid and standalone storage systems for solar and wind farm installation
- Non-flammable compared with lithium batteries with longer service life of around 20 years compared with 10 years for lithium batteries – and can discharge 100% of stored energy¹
- VRFBs and lithium batteries can be complementary technologies. Lithium batteries typically discharge over 4-5 hours, whereas the discharge profile for VRFBs is often longer¹
- Electricity from renewable sources could provide 65% of world's electricity supply by 2030, potentially decarbonising 90% of power sector by 2050²

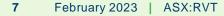
Ultra Power Systems has stand-alone power system at Second Fortune Gold Mine and will deploy to IGO's Silver Knight camp.



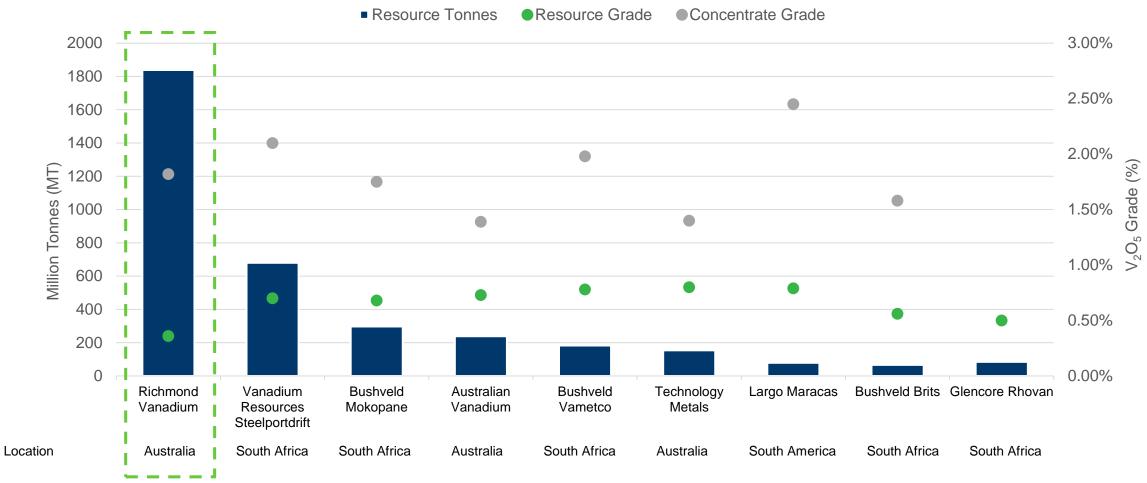


Plans unveiled for Australia's biggest vanadium flow battery and gigawatt factory. North Harbour Clean Energy backed by Aware Super and CellCube will build a 4MW, 16MWH VRFB for an industrial customer.

 ¹ Outlook for selected critical minerals in Australia 2021 Report, Dept of Industry, Science, Energy & Resources, Australian Government
 ² Renewable energy – powering a safer future, United Nations



GLOBAL PRIMARY MINERAL RESOURCES



The above chart compares Mineral Resources reported under different codes and companies at different stages of development. Only Resources with a cut-off grade of $\geq 0.30\%$ and an average resource grade of >0.35% are shown. All comparative data has been sourced from public company disclosures – please refer to Appendix 2 "Peer Comparison Table" attached to this presentation.



ENVIRONMENTAL, SOCIAL & GOVERNANCE

We aim to serve as a catalyst for local economic development through transparent and respectful engagement, and as responsible stewards of the environment

ENVIRONMENT

 Epic Environmental Pty Ltd commissioned to undertake environmental studies to attain the environmental approvals required for development



- Epic has significant local experience delivering an Environmental Impact Statement (EIS) for a vanadium project near Julia Creek
- Preliminary Environmental Assessment indicates no major environmental constraints to preclude project from proceeding
- Wet and dry season flora and fauna surveys conducted across life-of-mine area
- Project to be assessed under bilateral agreement between Queensland and Commonwealth governments providing pathway for approvals
- EIS Terms of Reference released for public comment in December 2022

SOCIAL

- Use of local business, civil, accommodation, services and meals
- Regular engagement with community and key stakeholders

GOVERNANCE

- RVT established as reputable, modern, exploration and development company with strong ESG principles
- Best practice standards and corporate
 governance principles integrated
- First critical minerals project declared a Coordinated Project





PROJECT DETAILS

-0



RICHMOND VANADIUM PROJECT OVERVIEW

Location

- Located in mining friendly jurisdiction of North Queensland
- Close to existing infrastructure including gas pipeline, proposed Copper String 2.0 HV network line, Flinders Highway and Great Northern railway link to Townsville Port
- Three main prospects Lilyvale, Manfred and Rothbury covering ~1,400 km

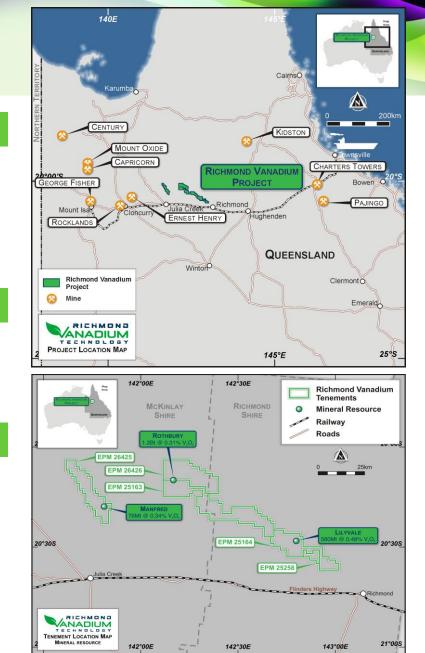
Mineral Resource & Ore Reserve

- Global Mineral Resource estimate stands at 1.8Bt @ 0.36% for 6.65Mt V₂O₅ at 0.30% cut-off¹
- Maiden Ore Reserve for Lilyvale Deposit of 459.2Mt @ 0.49% for 2.25Mt V₂O₅¹

Geology & Mineralisation

- One of the largest non-titanomagnetite vanadium deposits of its kind (soft marine sediments) globally
- Vanadium mineralisation at an average depth of between 2m and 25m below surface
- Soft sediment means no drilling, blasting, grinding (milling) or roasting significantly reducing power requirements, capex and operating costs

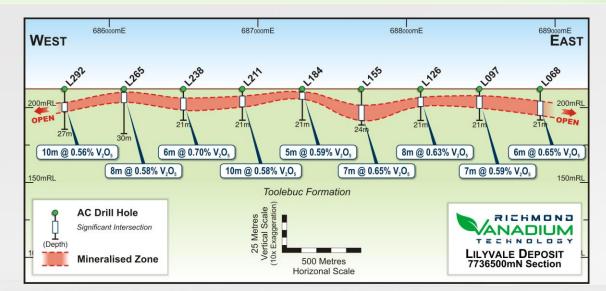
¹ Refer Prospectus dated 14 October 2022, Section 4 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022.





LILYVALE DEPOSIT

- Located 45km north-west of the Richmond township in close proximity to the Flinders Highway and Great Northern railway
- Mineral Resource of 560Mt @ 0.48% V₂O₅¹
- Mineralisation is associated with the Toolebuc geological formation at an average depth of between 2m and 25m below surface
- Starter pit to focus on upper mineralised zone at Lilyvale as it is:
 - highest grade based on drilling to date $(0.52\% V_2O_5)^{-1}$
 - can be mined simply by free dig open cut mining with very low strip ratio (0.92)¹
 - amenable to low cost removal of coarse fraction via scrubbing, trommelling, screening, cycloning and flotation to produce high grade feedstock of 1.82% V₂O₅¹
 - waste/tailings is non-toxic





¹ Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022



LILYVALE DEPOSIT ORE RESERVE¹

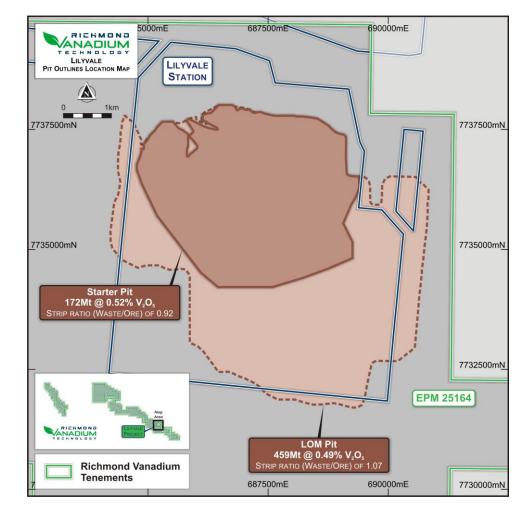
• Maiden open pit Ore Reserve at the Lilyvale Deposit of:

459.2Mt @ 0.49% for 2.25Mt V₂O₅

- Two pits designed over Lilyvale Deposit Indicated Mineral Resource:
 - LOM (Life of Mine) pit hosting Probable Reserves; and
 - Starter pit focussed on the higher grade part of LOM pit
- Both pits host Probable Reserves designed over Indicated Resources according to the 2012 JORC code
- Preliminary starter pit designed to achieve a lower strip ratio (0.92) and higher ore grade (0.52% V_2O_5) in early pit development periods

Ore Reserve – Lilyvale Deposit at a cut-off grade 0.30%								
Pit	Total Rock (MT)	Probable Ore (MT)	Strip Ratio (W/O)	Average V ₂ O ₅ grade for Probable Ore (%)				
LOM	951.7	459.2	1.07	0.49				
Starter	331.7	172.5	0.92	0.52				

Refer to Appendix 1 "Mineral Resource & Ore Reserve Estimates" attached to this presentation

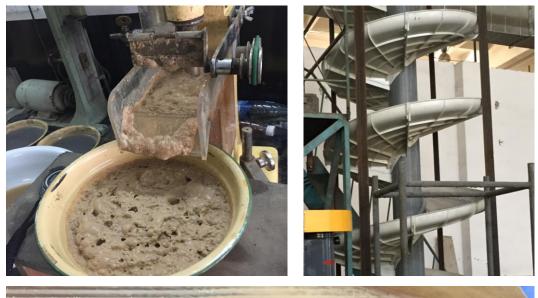


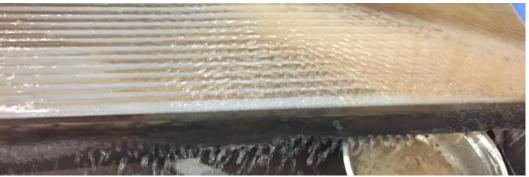
¹ Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022



PROVEN METALLURGICAL RESULTS¹

- Project is a large, low grade, high calcite content resource
- RVT's process flowsheet uses proven conventional technology
- 1.2 tonnes of vanadium samples sent to two research institutes
- Testwork programs jointly developed, with all testwork supervised by RVT
- Two-step process determined:
 - 1) Ore upgraded from a mined grade of 0.49% to a shipping grade of $1.82\% V_2O_5$ concentrate
 - Extraction via refining to produce 98% V₂O₅ flake for use in the energy storage and steel markets
- Concentrate produced reduced calcium carbonate grade significantly, enabling consideration of several downstream processing options
- Testwork enabled flowsheet design to be completed during PFS
- Provisional patent application lodged with IP Australia relating to the method for the concentration of vanadium





¹ Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022



PRE-FEASIBILITY STUDY¹

- Indicates project presents opportunity to develop and produce a vanadium concentrate at 1.82%
- Mining and concentration options are known while logistics and available infrastructure provide **a positive economic solution**
- Modest up-front capital costs of A\$242.2m (US\$176.8m) for concentrating in Australia and refining overseas, and operating cash costs of A\$8.66/lb (US\$6.32/lb²) of 98% V₂O₅ flake²
- Independent Technical Assessment Report noted costs more susceptible to changes in flowsheet selection, design and mechanical equipment sizing as engineering design advances, than changes in equipment pricing
- At US\$9.60/lb (study price) project generates NPV_{10%} of A\$613.0M (US\$447.5M) with IRR of 38% and payback of 3.2 years, concentrating in Australia and refining offshore
- BFS will consider preferred onshore refining option due to a changed government landscape, and look at further optimising the process to reduce capital costs
- Queensland Government to build \$75 million critical mineral demonstration facility in Townsville helping to accelerate the growth of the critical minerals industry and creating employment opportunities



¹ Refer Prospectus dated 14 October 2022, at section 4 and also ITAR at Schedule 1 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

² AUD-USD FX rate (0.73)



SUMMARY OF KEY PFS OUTCOMES¹

Measure	PFS outcome US\$9.60/Ib V ₂ O ₅ (Study Price)		
Life of Mine (LOM)			
Total pit volume (Mt)	951.7		
Stripping ratio (waste: ore)	1.07		
Mined ore (Mt)	459.2		
Ore Grade V_2O_5 (%)	0.49		



	PFS outcome	Sensitivity Analysis				
Measure	US\$9.60/lb V ₂ O ₅ (Study Price)	PFS outcome at US\$7.60/lb V ₂ O ₅	PFS outcome US\$8.60/lb V ₂ O ₅	PFS outcome US\$10.60/lb V ₂ O ₅		
PFS (Initial 25-year life)	(based on concentrating in Australia, refining offshore)					
Mined ore (Mt) Ore Grade V ₂ O ₅ (%)	101.5 0.49					
Concentrate Produced V_2O_5 (Mt)	19.75					
Concentrate Grade (%)	1.82					
Refining recovery average (%)	86.1					
V ₂ O ₅ 98% Flake Produced (kt)	317.5					
Capital costs (\$M)	A\$242.2					
Operating costs (\$/lb)	A\$8.66 (US\$6.32 ²)					
NPV @ 10% (\$m) (post-tax)	A\$613	A\$139	A\$376	A\$850		
Payback (years)	3.2	8.7	4.6	2.5		
IRR	38%	17%	28%	48%		

All material assumptions in the sensitivity analysis continue to apply and have not materially changed. The sensitivity analysis included in the ITAR (refer Prospectus dated 14 October 2022, ITAR at Schedule 1, Figure 10-1) shows that the project is most sensitive to the product price followed by the exchange rate. A 15% change in the concentrate product price results in a 31% - 41% change in NPV.

¹ Refer Prospectus dated 14 October 2022, at section 4 and also ITAR at Schedule 1 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

² AUD-USD FX rate (0.73)

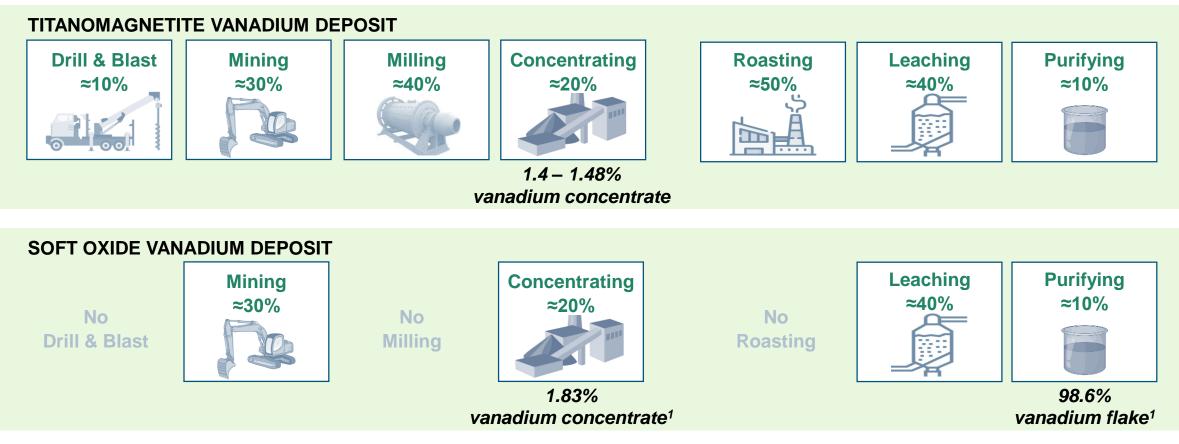


COMPARISON OF ESTIMATED PRODUCTION COST BREAKDOWN Soft Oxide vs Titanomagnetite Vanadium Deposits

Concentrating

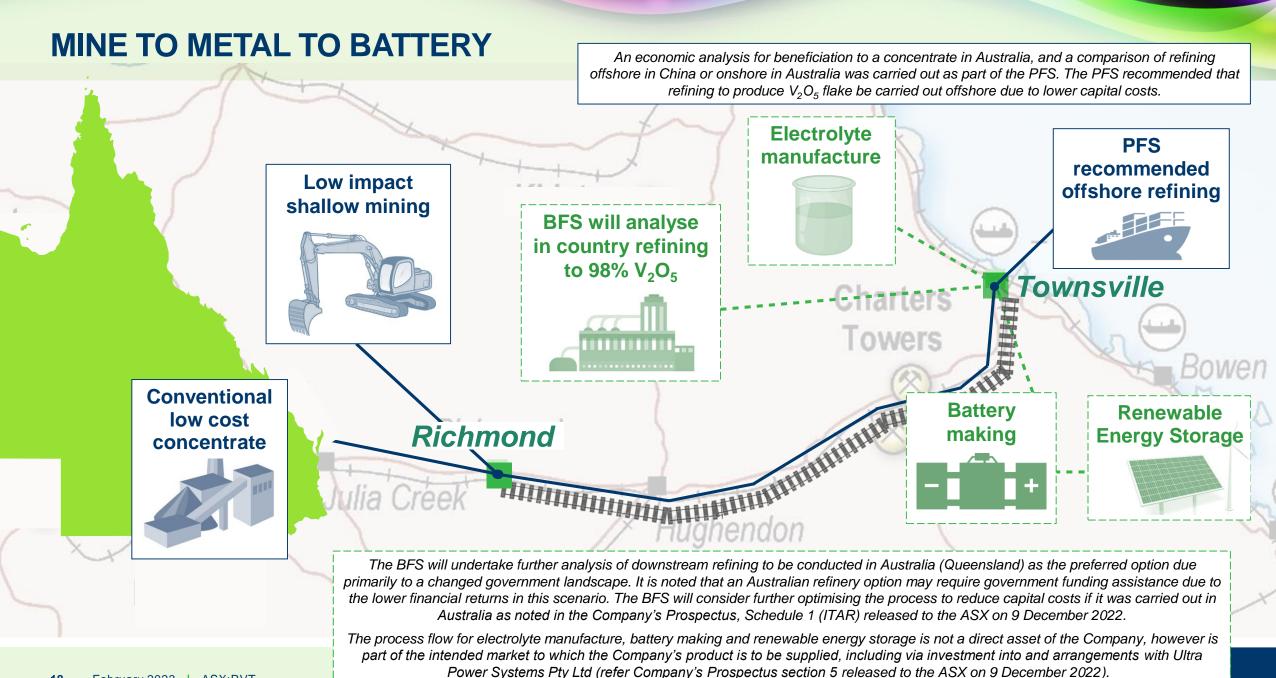
Refining

to minimum 98% to meet vanadium flake standard



¹ Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022





TECHNOLOGY

INVESTMENT IN ULTRA POWER SYSTEMS¹

RVT enters Binding Term Sheet to invest \$3M into Ultra Power Systems

- Binding Term Sheet signed 5 August 2022 to invest \$3M into Ultra Power Systems Pty Ltd (Ultra)
- Ultra will purchase vanadium pentoxide flake from RVT subject to availability and timeliness of delivery, quality and price
- RVT has right to appoint one director as long as it holds minimum 7.5% interest in Ultra
- Formal Agreement to be signed by 28 February 2023

Ultra has developed its own VRFB system, the Ultra V40 battery module, and a standalone power system which integrates solar and wind turbines into a mobile and scalable power generation system highly suitable for off-grid applications.

Ultra's licenced electrolyte is a premium product that has a substantially higher operating temperature range and higher energy density without requiring additives.

Ultra provides RVT with a strategic partnership with an Australian battery manufacturer, as well as substantive off-take agreements in the future.

Ultra's initial markets, both in Australia and overseas, include off-grid applications within the mining sector (such as bore pumps, exploration camps, mining villages and ultimately full mine electrification), remote communities, community batteries, residential microgrids, and the specific charging demands of the electric vehicle sector.





¹ Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022.

CONTACT US

Dr Shuang (Shaun) Ren

Managing Director

T: +61 8 6141 9500 E: info@richmondvanadium.com.au

Jon Price

Non-Executive Director T: +61 8 6141 9500

E: info@richmondvanadium.com.au

Victoria Humphries

Media & Investor Relations

T: +61 431 151 676 E: victoria@nwrcommunications.com.au This presentation has been authorised for release by the Board of Richmond Vanadium Technology Limited

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APPENDIX 1 – MINERAL RESOURCE AND ORE RESERVE ESTIMATES¹

Richmond – Julia Creek Project Mineral Resource and Contained Metal (at 0.30% V ₂ O ₅ cut-off)							
Deposit	Category	Tonnage (MT)	V ₂ O ₅ (%)	V₂O₅ (MT)			
Rothbury	Inferred	1,202	0.30	3.75			
Lilyvale	Indicated	430	430 0.50				
Lilyvale	Inferred	130	0.41	0.53			
Manfred	Inferred	76	0.35	0.26			
Totals and Averages	;	1,838	0.36	6.65			

Note:

Reported in accordance with JORC Code (2012) at cut-off grade 0.3% V₂O₅

Metal content calculated using grades with 3 decimal places

Metal content varies from Mineral Resources Update by HGS (ASX:IRC "Intermin announces world –class Vanadium Resource", dated 20 March 2018), due to arithmetic errors. The table above reflects the correct results for Manfred.

Metal content of molybdenum and nickel can be found in Table 5-1 of the ITAR (Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022)

Richmond – Julia Creek Project Ore Reserve (Lilyvale Deposit)

Category	Tonnage (MT)	V ₂ O ₅ (%)	V ₂ O ₅ (MT)
Proved	0.00	0.00	0.00
Probable	459.2	0.49	2.25
Total	459.2	0.49	2.25

Note:

At cut-off grade (COG) of 0.3% V₂O₅

The Ore Reserve for the project is reported according to the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves, JORC

The Ore Reserve statement is based on information compiled by Dr Dawei Xu, MAusIMM

¹ Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022.



APPENDIX 2 – PEER COMPARISON TABLE

Company	Code	Project	Stage	Resource Category	Resource Tonnes (Mt)	Resource Grade (V₂O₅ %)	Total Resource (Mt @ V ₂ O ₅ %)	Concentrate Grade	Information Source and Notes
Richmond		Development	Indicated	429.4	0.50	1,838Mt @ 0.36% (Cutoff V ₂ O ₅ = 0.30%)	1.82	Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022	
Vanadium			Inferred	1,408.6	0.33				
				Measured	145.5	0.72	680Mt @ 0.70% (Cutoff V ₂ O ₅ = 0.45%)	2.10	
Vanadium Resources	ASX:VR8	Steelportdrift	Development	Indicated	327.3	0.70			ASX Announcement dated 17/11/2022 Investor Presentation
				Inferred	207.4	0.68			
Bushveld	LSE:BMN	Mokopane	Development	Indicated	63.2	1.32	297Mt @ 0.68%	1.75	Mokopane Vanadium project Pre-Feasibility Study 30/1/2016
Dustivelu	LOL.DIVIN	мокоране	Development	Inferred	234.0	0.51	(Cutoff $V_2O_5 = 0.30\%$)	1.75	bushveldminerals.com/wp-content/uploads/2017/08/201602040458050.pdf
				Measured	11.3	1.14			ASX announcement dated 6/4/2022 Bankable Feasibility Study for the Australian Vanadium Project. 73.6Mt of the Indicated and 88.5Mt of the Inferred tonnes use 0.40% V ₂ O ₅ cutoff.
Australian Vanadium			Development	Indicated	82.4	0.70	239Mt @ 0.73% (Mixed cutoffs!)	1.40	
				Inferred	145.3	0.71			All other tonnages (95.6Mt) are at 0.70% V_2O_5 cutoff.
				Indicated	140.1	0.74			Vametco Inferred & Indicated Mineral Resource and Ore Reserve Update for Annual
Bushveld	ushveld LSE:BMN Vametco	o Production	Inferred	42.6	0.90	183Mt @ 0.78% (Cutoff = 20% magnetite)	1.98	Reporting purposes, 30/3/2022 bushveldminerals.com/wp- content/uploads/2022/04/J4590-Vametco-Mineral-Resources-and-Ore-Reserves-31- December-2021-Dated-30-Mar-2022.pdf	
		Murchison		Measured	12.1	1.00	154Mt @ 0.85% (Cutoff V ₂ O ₅ = 0.40%)	1.40	ASX announcement dated 23/11/2022 RIU Resurgence Conference 23 November 2022
Technology Metals	ASX:TMT	MT Technology	Development	Indicated	51.2	0.90			
		Metals	letais	Inferred	90.5	0.80			
				Measured	45.95	0.83			43-101Technical Report dated 10/10/2021 s29.q4cdn.com/562286712/files/doc_downloads/technical_report/marac%C3%A1s_menc hen_mine/TR_GE21_Largo_43101_16122021_Final-Version-Conformed-for-Filing.pdf
Largo Resources	NASD:LGO TSX:LGO	Maracas	Aaracas Production	Indicated	17.73	0.70	79Mt @ 0.78% (Cutoff V ₂ O ₅ = 0.30%)	2.45	
				Inferred	15.52	0.74			hen_hine/TK_GEZT_Largo_4310T_10T2202T_Final-version-Contormed-for-Fining.put
Duchasta		Dette	Indicated 44.9 0.56 66.8Mt @ 0.56% Inferred 22.0 0.55 (Cutoff = 20% magnetite)	4.50	Competent Persons Report on the Brits Vanadium Project North West 30/1/2020				
Bushveid	ushveld LSE:BMN Brits	Brits		Inferred	22.0	0.55		1.58	bushveldminerals.com/wp-content/uploads/2020/01/Independent-CPR_Brits- Vanadium_January_2020_Final.pdf
	lencore LSE:GLEN JSE:GLN Rhovan			Measured	51.7	0.47	176Mt @ 0.49% (Cutoff = 15% magnetite)		Glencore 2021 Reserves & Resources report at 31/12/2021 glencore.com/.rest/api/v1/documents/fb0cafaa3ec10b90571130be41ba4270/2021-
Glencore		Rhovan	Production	Indicated	33.5	0.50			
					91.0	0.51			GLEN_Resources-and-Reserves-report.pdf