

TARDIFF UPPER ZONE MINERAL RESOURCE UPDATE

WORLD-CLASS ASSET
WITH SCALEABLE POTENTIAL

NECHALACHO RARE EARTHS PROJECT, CANADA

> 19 APRIL 2024 (ASX: VML)



Important Notices & Disclaimers



Nature of document: This presentation has been prepared and issued by Vital Metals Limited (**Vital, Vital Metals** or the **Company**) to provide general information about the Company and its related bodies corporate (together, the **Group**). The information in this presentation is in summary form and should not be relied upon as a complete and accurate representation of any matters that a reader should consider in evaluating the Company. While management has taken every effort to ensure the accuracy of the material in this presentation, the Company and its advisers have not verified the accuracy or completeness of the material contained in this presentation.

Forward looking statements: This presentation contains forward-looking information about the Company and its operations. In certain cases, forward-looking information may be identified by such terms as "anticipates", "believes", "should", "could", "estimates", "target", "likely", "plan", "expects", "may", "intend", "shall", "will", or "would". These statements are based on information currently available to the Company and the Company provides no assurance that actual results will meet management's expectations. Forward-looking statements are subject to risk factors associated with the Company's business, many of which are beyond the control of the Company.

It is believed that the expectations reflected in these statements are reasonable but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially from those expressed or implied in such statements. There can be no assurance that actual outcomes will not differ materially from these statements. Some of the underlying assumptions in this presentation are based on information which has not been independently verified.

Disclaimer: No representation or warranty, express or implied, is made by the Company that the material contained in this presentation will be achieved or proved correct. Except for statutory liability which cannot be excluded, each of the Company, its directors, officers, employees, advisors and agents expressly disclaims any responsibility for the accuracy, fairness, sufficiency or completeness of the material contained in this presentation and excludes all liability whatsoever (including in negligence) for any loss or damage which may be suffered by any person as a consequence of any information in this presentation or any effort or omission therefrom. The Company will not update or keep current the information contained in this presentation or to correct any inaccuracy or omission which may become apparent, or to furnish any person with any further information. Any opinions expressed in the presentation are subject to change without notice.

Compliance Statements: This presentation contains information relating to Mineral Resource Estimates for the Nechalacho Project extracted from an ASX market announcement reported previously and published on the ASX platform on 4 April 2024, titled "Vital increases Tardiff Mineral Resource Estimate tonnage by 79% and contained NdPr by 49%". 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.

This presentation contains information relating to Exploration Results extracted from ASX market announcements "Vital intersects up to 2.8% TREO in drilling at Tardiff", "Vital Drilling at Tardiff returns up to 5.4% TREO", and "Tardiff returns further high-grade results up to 7.9% TREO..." reported previously in accordance with the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (2012 JORC Code) and published on the ASX platform on 30 May 2023, 21 November 2023, and 6th February, 2024 respectively. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements.

Authorisation: This presentation is authorised for market release by the Board of Vital Metals.

Investment Highlights



Leveraging asset qualities, jurisdiction and capability to develop a North American rare earth supply chain

Strategic Asset

- Unearthing the economic potential from this world-class asset
- Upper Tardiff MRE (Base case, NMR cut-off C\$115/t): <u>212.7 Mt at 1.2% TREO</u> [Revenue Factor: 1.0x]
 177.3 Mt at 1.3% TREO [Revenue Factor: 0.5x]
- Scoping Study underway to focus on grade and scale

Canada – Tier-1 location

- Governments reshaping supply chains and opting for clean energy¹
- Leverage Canadian Government focus on critical minerals
- Ready access to infrastructure

New team in-country

- New MD & CEO Dr Geordie Mark mineral systems analysis and capital markets experience in Canada
- New VP Exploration Dr Natalie Pietrzak-Renaud has expertise in Rare Earth geological systems and processing analysis
- Heightened Canadian-based skill set with technical, financial and operational experience

Skill set advantages

- Leveraging advances in instrumental and method integration to optimise characterisation and separation
- Enviable expertise in permitting projects into development and operation
- Front-end capability and rare earths market product expertise will optimise revenue and cost

Building value

- Resource growth potential through testing of extensions to shallow high-grade REE mineralisation
- Vital to examine Nechalacho's lithium potential in 2024
- Compelling long-term rare earth market outlook global decarbonisation efforts¹

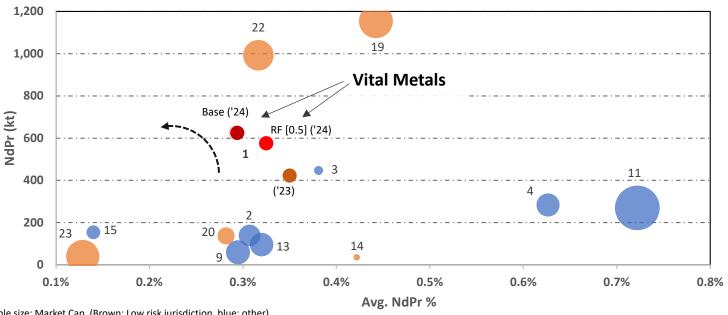
Nechalacho - Combining size and grade



Nechalacho is a world-class asset with scaleable potential and high NdPr grades

- Simple flat topography, and single with open pit potential; and consistent NdPr ratios
- Sizeable exceptional size across cut-off grade ranges
- High-grade outstanding NdPr grades (NdPr:TREO ratio) differentiate product potential
- **Growth potential** high-grade zones remain open

Comparison of NdPr Grade (wt %) vs MRE NdPr (kt) (contained)



Bubble size: Market Cap. (Brown: Low risk jurisdiction, blue: other).

Base ['24]: New MRE for Upper Tardiff base case scenario using revenue factor [RF] of 1.0.

RF [0.5x] ('24) represents new MRE for Upper Tardiff using sensitivity at RF of 0.5.

('23) represents Upper Tardiff MRE estimate published in 2023.

NdPr refers to the sum of neodymium and praseodymium oxide, Nd2O3 + Pr6O11.

Source: ASX data, company announcements with detailed sector data in the appendices. Numerical data points for labelling in sector data in appendices

Nechalacho MRE – Underpins development plans



New MRE Base Case: uses Net Metal Revenue (NMR) versus simple TREO (%) cut-off

NMR: uses first principles cost and metal recovery factors, payability assumptions, peer and operational data

NMR (cut-off): C\$115 per tonne highlights low-cost potential – to underpin Scoping Study

- Single Open Pit: lower strip ratio potential
- Grade Flexibility: maintains impressive size at higher cut-offs
- High NdPr ratio (~25% NdPr:TREO) and NdPr content: (>623 kt)

	Tannana	NMR		Average grad	Contained oxide		
Classification	Tonnage	NIVIK	TREO	Nd ₂ O ₃	Pr ₆ O ₁₁	TREO	NdPr
	(Mt)	(\$/t)	(%)	(%)	(%)	kt	kt
Measured	7.0	457	1.392	0.267	0.074	97.3	23.8
Indicated	24.1	362	1.082	0.213	0.057	260	65.0
Measured + Indicated	31.1	383	1.152	0.225	0.061	358	88.8
Inferred	181.6	395	1.170	0.232	0.062	2,125	534
Total	212.7	393	1.167	0.231	0.062	2,482	623

Notes:

- JORC (2012) definitions were followed for Mineral Resources.
- 2. Open pit Mineral Resources are reported within an optimized pit shell above a net metal revenue (NMR) value of C\$115/t.
- 3. Mineral Resources are estimated using average long term metal prices and metallurgical recoveries; a mining cost of C\$4.50/t moved, a processing cost of C\$92/t milled, G&A costs of C\$15/t milled, and transportation costs of C\$70/t concentrate moved and C\$115/t final product TREO moved.
- 4. Revenue is attributable to Nd₂O₃ and Pr₆O₁₁. The NMR value for each block was calculated using the following NMR factors: C\$133.92 per kg Nd₂O₃, and C\$133.92 per kg Pr₆O₁₁.
- Average bulk density is 2.80 t/m³.
- NdPr refers to the sum of neodymium and praseodymium oxide, Nd₂O₃ + Pr₆O₁₁.
- 7. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.
- 8. Totals may not add or multiply accurately due to rounding.

Nechalacho MRE – Revenue Factors



Looking Beyond the Demand Tipping Point: Societal Change and Technology Uptake

Sensitivity Analysis:

Base Case [RF: 1.0x] uses Net Metal Revenue (NMR) versus simple TREO (%) cut-off

Revenue Factors: insights into asset scale, scope and potential

- Sustains large spreads between NdPr cut-off and average NdPr grade (see below)
- Maintains large estimated total resource base over a range of cut-off values
- Highlights large total contained NdPr content [RF: 0.5x-1.0x]: >575 kt to >623 kt
- Durability potential to commodity price and cost variations (to be assessed further in scoping study)

Total Resources Sensitivities to Revenue Factors

Revenue Factor	NMR cut- off	NdPr cut-off	Mass	NMR	TREO	NdPr
[RF]	(\$/t)	(%)	(Mt)	(\$/t)	(%)	(%)
0.5x	230	0.172	177.3	435	1.292	0.325
0.6x	192	0.143	189.6	422	1.251	0.315
0.7x	164	0.122	198.0	412	1.222	0.307
0.8x	144	0.108	204.2	404	1.199	0.302
0.9x	125	0.093	209.6	397	1.179	0.296
1.0x	115	0.086	212.7	393	1.167	0.294

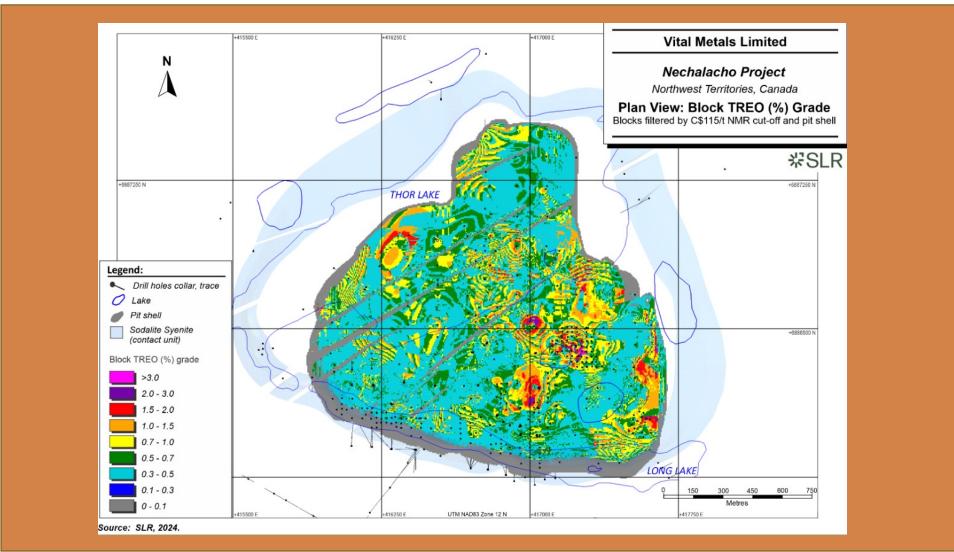
Notes:

^{1.} JORC (2012) definitions were followed for Mineral Resources.

Nechalacho MRE – Resource growth potential



Plan view showing the resource blocks at a C\$115/t NMR cut-off within the pit shell

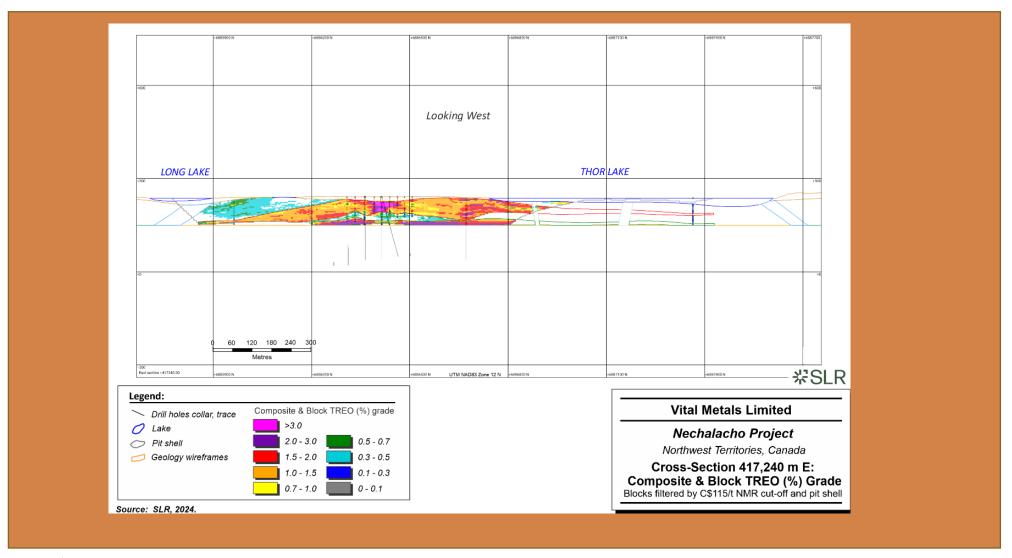


Notes: 1: JORC (2012) definitions were followed for Mineral Resources.

Nechalacho MRE - Shallow and high-grade



North-South cross-section showing resource blocks (C\$115/t NMR cut-off) and drill hole composites

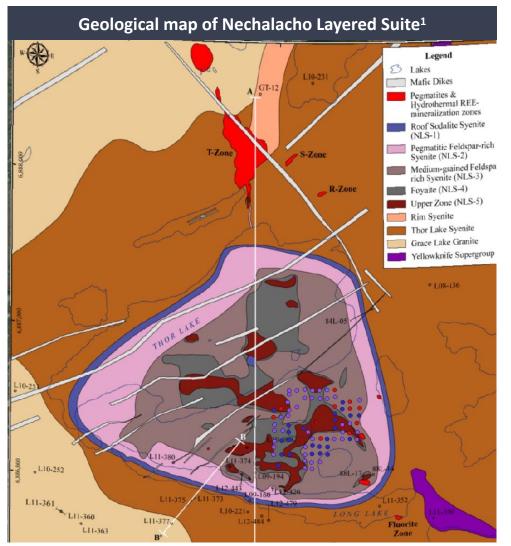


Notes: 1: JORC (2012) definitions were followed for Mineral Resources.

Nechalacho - Building Scale and Grade



Nechalacho: Large REE-rich system showing high grades at surface



Tardiff Upper Zone – High Proportion of NdPr¹ (~25%)

Revenue Factor	Classification	Mass	TREO	Nd ₂ O ₃	Pr ₆ O ₁₁
		(Mt)	(%)	(%)	(%)
	Measured +				
0.5	Indicated	24.9	1.297	0.254	0.068
0.5	Inferred	152.4	1.291	0.257	0.069
	Total	177.3	1.292	0.256	0.069
	Measured +				
1.0	Indicated	31.0	1.152	0.225	0.061
1.0	Inferred	181.6	1.170	0.232	0.062
	Total	212.7	1.167	0.231	0.062

Grade and Growth: Optimizing value de-risking development

2023 drilling: 74 holes (50 reported) for 6,664m, including:

- 31.76m at 2.1% TREO from 34.24m;
- 23.85m at 2.0% TREO from 9.15m;
- 33.45m at 2.2% TREO from 47.00m;
- 15.50m at 2.7% TREO from 30.50m; and
- 20.45m at 2.2% TREO from 6.25m

^{1. &}quot;The Nature and Origin of the Nechalacho Rare Metal Deposit (REE, Nb,Zr), Northwest Territories, Canada." Volker Möller Department of Earth and Planetary Sciences, McGill University, Montreal, April 2016

Scoping Study to de-risk project development



Pathway for Value Creation

An Augmented Scoping Study

Project Economics: Coupling Value and De-risking

Value: aim to maximize project potential value by:

- Testing for areas of high-grade footprint expansion
- External higher grade REE mineralisation)

De-risk: lower scoping study outcome risks by:

- · Integrated geometallurgical domaining
- Mechanical and chemical trade-off studies
- REE recovery and cost characterization

Delivery

• On track for Q4 2024



Nechalacho's Regional Lithium Potential



Vital has a >5,000ha landholding adjacent to recent regional pegmatite exploration and discoveries

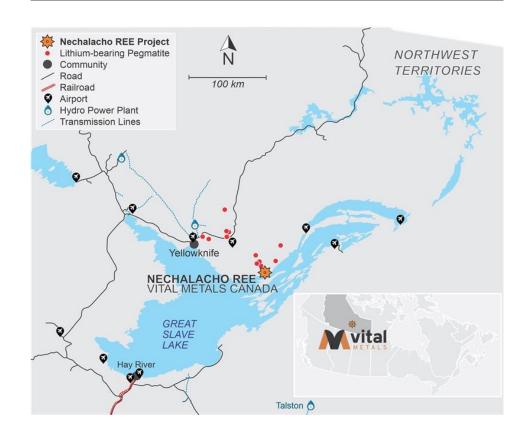
Lithium at Nechalacho?

- Limited historical exploration for lithium despite significant potential
- Nechalacho Project is proximal to many Li-bearing pegmatites that are the focus of recent exploration
- Regional analysis of the characterisation of Li-bearing pegmatites ongoing (mainly N-NE trending)
- Known historic occurrences of outcropping pegmatites across the Nechalacho Project area

Upcoming catalysts

- Interpretation of lithium potential
- · Drilling lithium targets across the Nechalacho Project area

Regional Scale Potential



Canada: Vertical Integration is a Key Driver



Tardiff's scale, grade and location offer attractive qualities to the North American market

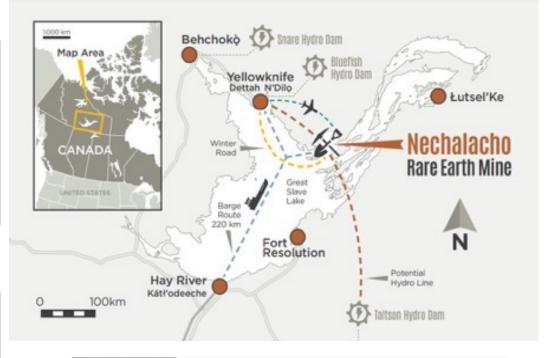
World Looking to Integrate Vertically (Production-Refining)

Tier-1 jurisdiction brings:

- ✓ Asset ownership and fiscal regime stability
- ✓ Critical minerals focus of governments
- Potential funding and regulatory advantages to project maturation and funding

Vital can capitalise on shifting global rare earths supply chain

- ✓ Established higher-grade resource in tier-1 jurisdiction
- ✓ Upper Tardiff: shaping for scope and scale potential
- ✓ Early work shows indicative at most NdPr in carbonates
- ✓ Approaches to optimising flowsheet design on Tardiff





Jonathan Wilkinson Minister of Natural Resources

"I am pleased to release Canada's Critical Minerals Strategy. This Strategy, backed by nearly \$4 billion in Budget 2022, sets out a course for Canada to become a global supplier of choice for critical minerals and the clean digital technologies they enable."



Government of Canada

Government of Canada to Enhance Critical Minerals Sector With Launch of \$1.5 Billion Infrastructure Fund

From: Natural Resources Canada

1. The Canadian Critical Minerals Strategy – From Exploration to Recycling: Powering the Green and Digital Economy for Canada and the world (December, 2022)



✓ Updated MRE	April 2024 - DELIVERED
Drilling Results	Assays from final 20 holes pending Expected release Q2/Q3
Project Optimisation	Product saleability: low-cost path via partners and networks Processing flow sheet optimisation - Focus on margin maximisation Mine plan grade optimisation
Further MRE update	Focus on high-grade extensions of mineralisation Expected delivery 2H 2024
Scoping Study	To incorporate late 2024 MRE and results of Project Optimisation Due for delivery in Q4 2024



DIRECTORS

RICHARD CROOKES

Non-Executive Chairman

PAUL QUIRK
Non-Executive Director

JAMES HENDERSON
Non-Executive Director

LISA RILEY
Non-Executive Director

MANAGEMENT CANADA

GEORDIE MARK
CEO & Managing Director

STEVE WOOLFENDEN VP, Sustainability

NATALIE PIETRZAK-RENAUD VP, Exploration

MANAGEMENT AUSTRALIA

LARA IACUSSO
Chief Financial Officer

LOUISA MARTINO Company Secretary

CAP ITAL STRUCTURE	
ASX Code	VML
Shares on Issue	5,895.1m
Options on Issue	795.5m
Market Capitalisation	A\$23.5m
Cash (at 31 Dec 2023)	A\$4.2m





Fieldwork on Nechalacho



Appendices









RICHARD CROOKES Non-Executive Chairman

Mr Crookes is managing partner of Lionhead Resources (LHR) and chairman of the Investment Committee. He has more than 35 years of experience as both a mine operator and investor. Mr Crookes holds a BSc in Geology.



GEORDIE MARK CEO & Managing Director

Dr Mark has a PhD in Geology and 25 years of diversified global experience across the resources sector, including as an industryleading resources analyst, VP Exploration, as well as other consultancy-related positions.



PAUL QUIRK Non-Executive Director

Mr Quirk is a partner at Lionhead Resources and is responsible for originating new investment opportunities. He holds a B.Comm from the Northeastern University in Accounting and Finance.



JAMES HENDERSON Non-Executive Director

Mr Henderson has more than 35 years' experience in advising emerging companies relating to corporate transactions and strategies, including financial and corporate structuring, capital raisings and commercial negotiations.



LISA RILEY Non-Executive Director

Ms Riley has nearly 30 years of experience in global capital markets, finance, mining advisory and government relations in Canada and Latin America.

STEVE WOOLFENDEN VP, Sustainability

Mr. Woolfenden brings over 25 years of mining industry experience. Previously, Steven held positions as Vice President of Environment and Community Affairs for McEwen Mining and IAMGOLD's corporate Environment Director.

NATALIE PIETRZAK-RENAUD VP, Exploration

Dr Natalie Pietrzak-Renaud brings more than 20 years of diversified geological expertise in the resources sector. History of detailed rare earth system's analysis, and experience in geological modelling, as well as metallurgical domain and material sorting analysis. She adds corporate from within Canada and elsewhere across a range of commodities.

LARA IACUSSO Chief Financial Officer

Ms lacusso is an experienced CFO with +25 years' providing financial advisory services in Australia and overseas across a wide range of industries including healthcare and medical devices, aged care, and natural resources.

LOUISA MARTINO Company Secretary

Ms. Martino has provided company secretarial and accounting services to ASX-listed companies for ~10 years. Previously she assisted with company compliance (ASIC and ASX) and capital raising for a corporate finance company.

Sector Data



Project	Company		Exchange	M/Cap [*]	Location	Equity	Туре	Resources	Grade	Calc.	GRade % NdPr
				(US\$m)				(Total) Mt	% TREO	NdPr(kt)	
Nechalacho	Vital Metals	1	ASX	19	Canada	100%	Hardrock	119	1.40%	417	0.35%
Wicheeda	Defense Metals	2	CA	45	Canada	100%	Hardrock	45.3	1.78%	139	0.31%
Ashram	Commerce Res.	3	CCE	8	Canada	100%	Hardrock	117.3	1.74%	447	0.38%
Bear Lodge	Rare Element Res.	4	OTCQB	51	USA	100%	Hardrock	45.2	2.75%	283	0.63%
Halleck Creek	American Rare Earths	5	ASX	41	USA	100%	Hardrock	1429	0.33%	1,050	0.07%
Koppamurra	Australia Rare Earths	6	ASX	15	Australia	100%	Ionic Clay	186.8	0.07%	29	0.02%
Browns Range	Northern Minerals	7	ASX	105	Australia	100%	Hardrock	6.43	0.96%	2	0.04%
Goschen	VHM Limited	8	ASX	80	Australia	100%	Sands	628.7	2.21%	2,607	0.41%
Mangaroon	Dreadnought Res.	9	ASX	55	Australia	100%	Hardrock	20.06	1.03%	59	0.29%
Splinter Rock	OD6 Metals	10	ASX	10	Australia	100%	Hardrock	344	0.13%	97	0.03%
Nolans	Arafura Rare Earths	11	ASX	190	Australia	100%	Hardrock	37.36	2.74%	270	0.72%
Cummins Range	RareX Resources	12	ASX	10	Australia	100%	Hardrock	519.3	0.32%	358	0.07%
Yangibana	Hastings Tech. Metals	13	ASX	53	Australia	100%	Hardrock	29.93	0.93%	96	0.32%
Sarfartoq	Hudson Resources	14	CVE	4	Greenland	100%	Hardrock	8.343	1.72%	35	0.42%
Norra Karr	Leading Edge Mat.	15	TSX-V	18	Sweden	100%	Hardrock	110	0.50%	154	0.14%
Penco Module	Aclara Resources	16	TSX-V	65	Chile	100%	Ionic Clay	168.1	0.15%	50	0.03%
Caldiera	Meteoric Resources	17	ASX	268	Brazil	100%	Ionic Clay	409	0.26%	246	0.06%
Makuutu	Ionic Rare Earths	18	ASX	53	Uganda	60%	Ionic Clay	532	0.06%	72	0.01%
Kangankunde	Lindian Resources	19	ASX	110	Malawi	100%	Hardrock	261	2.19%	1,155	0.44%
Songwe Hill	Mkango Resources	20	TSX-V	28	Malawi	100%	Hardrock	48.6	1.37%	137	0.28%
Ngualla	Peak Rare Earths	21	ASX	47	Tanzania	84%	Hardrock	214.4	2.15%	2,280	1.06%
Longonjo	Pensana	22	LON	89	Angola	84%	Hardrock	313.7	1.43%	993	0.32%
Phalaborwa	Rainbow Rare Earths	23	LON	105	South Africa	100%	Gypsum	30.4	0.44%	39	0.13%

^{1.} As at 26 January 2024. AUD:USD- 0.6575; CAD:USD: 0.7429; and GBP:USD: 1.2709.

. 16



Sector Data

Project	Study	Resource	Grade	Grade	Resource	Grade	Grade	Resource	Grade	Grade	Resource	Grade	Grade	References
		Mt	% TREO	%NdPr	Mt	% TREO	%NdPr	Mt	% TREO	%NdPr	Mt	% TREO	%NdPr	
			Measured			Indicated			Inferred			Total		
Nechalacho		4.6	1.59%	0.39%	6.3	1.45%	0.36%	108.1	1.39%	0.35%	119	1.40%	0.35%	02631023.pdf (weblink.com.au)
Wicheeda	PEA	6.4	2.86%	0.42%	27.8	1.84%	0.28%	11.1	1.02%	0.31%	45.3	1.78%	0.31%	<u>1b0da6</u> <u>e53b275d78df4606b205157dbf355004.pdf</u> (defensemetals.com)
Ashram	PEA							117.34	1.74%	0.38%	117.3	1.74%	0.38%	Commerce Resources' Ashram Rare Earth Element Deposit
														Confirmed as a Large Inferred Resource, Eldor Project, Quebec
Bear Lodge	PFS	2.7	3.77%	0.86%	13.6	2.91%	0.66%	28.9	2.58%	0.59%	45.2	2.75%	0.63%	- Commerce Resources Rare Element Resources Announces 2014 Pre-Feasibility Study
bear Louge	PF3	2.7	3.77/0	0.80%	15.0	2.91%	0.00%	20.9	2.30/0	0.59%	43.2	2.75%	0.03%	on the Bear Lodge Project
Halleck Creek					622	0.34%	0.08%	807	0.32%	0.07%	1429	0.33%	0.07%	Technical Report of Exploration and Maiden Resource
														Estimates of the Halleck Creek Rare Earths Project (americanrareearths.com.au)
Koppamurra		0.8	0.07%	0.02%	98.0	0.07%	0.02%	88	0.07%	0.02%	187	0.07%	0.02%	ASX:AR3 - 84% increase in Resource for Koppamurra REE
														Project
Browns Range	DFS	0.14	0.70%	0.03%	3.2	0.95%	0.04%	3.1	0.98%	0.04%	6.4	0.96%	0.04%	02580068.pdf (weblink.com.au)
Goschen	DFS	30.7	2.72%	0.49%	310	2.27%	0.43%	288	2.10%	0.39%	629	2.21%	0.41%	02648405.pdf (weblink.com.au)
Mangaroon					5.5	1.23%	0.34%	14.6	0.95%	0.28%	20.1	1.03%	0.29%	ASX:DRE - 40% Increase in Resource Tonnage at Yin - Mangaroon (dreadnoughtresources.com.au)
Splinter Rock								344	0.13%	0.03%	344	0.13%	0.03%	61158738.pdf (od6metals.com.au)
Nolans	DFS	4.9	3.20%	0.84%	30.0	2.70%	0.71%	2.5	2.30%	0.61%	37.4	2.74%	0.72%	Nolans Project Update (weblink.com.au)
Cummins Range					66.6	0.50%	0.11%	453	0.29%	0.06%	519	0.32%	0.07%	ASX:REE - Cummins Range Resource soars to 519Mt 0.32%
			0.000/	0.070/	40.5	0.000/	0.000/		4.0=0/			2 222/	2 222/	TREO, 4.6% P2O5 (rarex.com.au)
Yangibana	DFS	5.0	0.96%	0.37%	19.5	0.88%	0.32%	5.5	1.05%	0.31%	29.9	0.93%	0.32%	cb4101d8-37c.pdf (investi.com.au)
Sarfartoq	PEA				5.9	1.77%	0.43%	2.5	1.59%	0.40%	8.3	1.72%	0.42%	NR2011-01 final (hudsonresourcesinc.com)
Norra Karr	PEA							110	0.50%	0.14%	110.0	0.50%	0.14%	Norra Kärr PEA (wp-leadingedgematerials-2023.s3.ca-central- 1.amazonaws.com)
Penco Module	PEA							168	0.15%	0.03%	168	0.15%	0.03%	65aebbed8b366c4e97f4c1f9_PR_Carina Module_PEA
0.11								400	0.260/	0.000/	400	0.250/	0.000/	VF clean 2.pdf (website-files.com)
Caldiera	DEC				404	0.070/	0.040/	409	0.26%	0.06%	409	0.26%	0.06%	02660657.pdf (weblink.com.au)
Makuutu	DFS				404	0.07%	0.01%	127	0.05%	0.01%	532	0.06%	0.01%	02517527.pdf (weblink.com.au)
Kangankunde	DEC	0.01	1.500/	0.210/	12.2	1.250/	0.270/	261	2.19%	0.44%	261	2.19%	0.44%	Mineral_Resource_Estimate.pdf (squarespace.com)
Songwe Hill	DFS	8.81	1.50%	0.31%	12.2	1.35%	0.27%	27.5 15.7	1.33%	0.28% 1.05%	49 214	1.37%	0.28%	News Mkango Resources Ltd.
Ngualla	BFS	86.1	2.61%	1.04%	113	1.81%	1.09%		2.15%			2.15%	1.06%	02586372.pdf (weblink.com.au)
Longonjo	FS	25.7	2.58%	0.55%	165	1.51%	0.33%	123	1.08%	0.25%	314	1.43%	0.32%	Microsoft Word - MinRes-Sept2020-FINAL-LSE-Version-14- Sept-2020.docx (pensana.co.uk)
Phalaborwa	PEA	7.3	0.47%	0.14%	16.1	0.44%	0.13%	7	0.42%	0.12%	30	0.44%	0.13%	Phalaborwa Development and Resource Update
														(eurolandir.com)

DFS = Definitive Feasibility Study

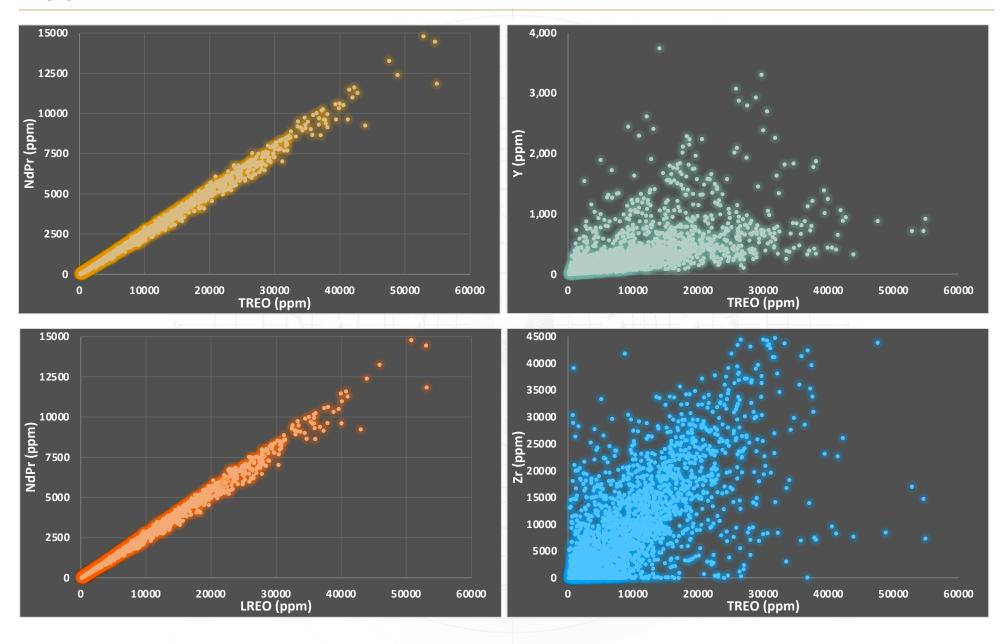
PEA = Preliminary Economic Assessment

PFS = Pre-Feasibility Study

FS = Feasibility Study

Upper Tardiff: Wholerock Data Trends





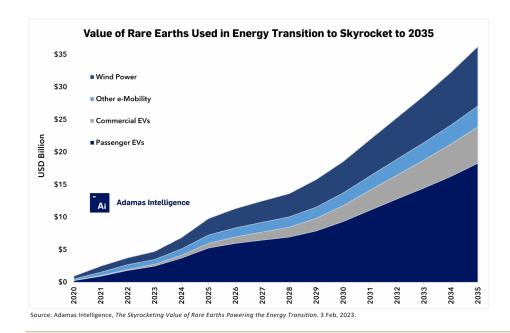
^{1.} Wholerock data tabled are from dataset informing drill results release on 30 May 2023, 21 November 2023, and 6 February 2024. TREO represents the sum of La2O3, CeO2, Nd2O3, Pr6O11, Sm2O3, Eu2O3, Gd2O3, Tb4O7, Dy2O3, Ho2O3, Er2O3, Tm2O3, Yb2O3, and Lu2O3. NdPr represents Nd2O3 + Pr6O11. LREO: represents the sum of La2O3, CeO2, Nd2O3, Pr6O11, Sm2O3, Eu2O3, Eu2O3, CeO2, Nd2O3, Pr6O11, Sm2O3, Eu2O3, Eu2O3,

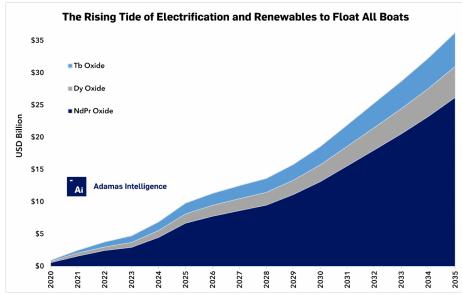
Compelling Long-Term Rare Earth Market Outlook



A new paradigm for rare earths demand

- China's dominance in the REE supply chain could threaten global supply¹
- Potential bifurcation of commodity prices ex-China²
- · NdPr oxide is key to the manufacture of permanent magnets used in EV's and Offshore Wind turbines
 - Neodymium demand is projected to increase by 48% by 2050³
 - Adamas Intelligence has doubled its NdPr oxide price forecast to 8.3% CAGR to 2035⁴





Source: Adamas Intelligence, The Skyrocketing Value of Rare Earths Powering the Energy Transition. 3 Feb, 2023

- 1. Bloomberg, 7 June 2023 The Supply Crisis for Rare Earth Elements Intensifies
- 2. Reuters, 8 November 2023 Western miners target China's rare earth metals grip with premium prices
- 3. Columbia Climate School
- 4. Adamas Intelligence Rare Earth Magnet Market Outlook to 2030 KU Leuven University



Rare Earth Demand and Generational Paradigm Change

Rapid technology uptake and heightened data responsiveness leading into an AIOT future

✓ AIOT (systemic adoption potential): rapid expansion (~US\$27.92 billion in '22 to ~US\$253.9 billion in '30²)

Smart Cities

Industrial Automation

Healthcare (cobots)

Smart Home and Building Automation

Transportation

Agriculture

Energy

