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Hastings Technology Metals Ltd



Corporate Presentation

Yangibana Rare Earths Project

7 August 2024



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COMPETENT PERSONS' STATEMENT

The information in this presentation relating to Mineral Resources and Ore Reserves have been prepared by a Competent Person in accordance with the 2012 edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' ("JORC Code") and have been extracted from the release title 'Annual Report to shareholders' dated 28 September 2023 which is available to view at www.asx.com.au under the code "HAS" (the original release). The Company confirms that it is not aware of any other 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 relevant market announcement continue to apply and have not materially changed. Hastings confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

The information that relates to Mineral Resources is based on information compiled by David Princep and Lyn Widenbar. Both Mr. Princep and Mr Widenbar are independent consultants to the Company and members of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr Princep and Mr Widenbar have sufficient experience relevant to the styles of mineralisation and types of deposits which are covered in this announcement and to the activity which they are undertaking to qualify as a Competent Person as defined in the JORC Code.

The information that relates to the Ore Reserves at Bald Hill, Simon's Find, Fraser's, Auer, Auer North, Yangibana and Yangibana North is based on information reviewed or work undertaken by Mr. Stephen O'Grady. Mr O'Grady is an independent consultant to the Company and a member of the AusIMM, and a Director of Intermine Engineering Consultants. Mr O'Grady has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the preparation of mining studies to qualify as a Competent Person as defined by the JORC Code. Mr O'Grady consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

The scientific and technical information in this announcement and that relates to process metallurgy is based on information reviewed by Scott Atkinson. Mr Atkinson is a full-time employee of Hastings Technology Metals Limited and member of the Australasian Institute of Mining and Metallurgy (AusIMM; 3056865) and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined by the JORC Code 2012. Mr Atkinson consents to the inclusion in this announcement of the matters based on their information in the form and context in which it appears.

The information in this announcement that relates to exploration results in relation to the Yangibana Rare Earths Project ("Yangibana Project" or "Yangibana") and the Centipede Range Project ("Centipede Project" or "Centipede") and other exploration results, are based on information compiled by Competent Person, Dr. Louis Schürmann. Dr. Schürmann is a full-time employee of Hastings and Fellow of the Australasian Institute of Mining and Metallurgy (Aus IMM: 308067). Dr Schürmann has sufficient experience relevant to the styles of mineralization and types of deposits which are covered in this announcement and to the activity which they are undertaking to qualify as a Competent Persons as defined in the 2012 edition of the 'Australasian Code for Reporting of Exploration Results'. Dr Schürmann consents to the inclusion of this announcement of the matters based on the information and context in which it appears. Dr Schürmann has +30 years' experience as an exploration geologist and project manager.

Our Vision and Values

To be a leading Australian producer of rare earth minerals needed to meet the global transition to renewable energy and advanced technologies.

>Passion

We are **loyal** to the project and work passionately to deliver our vision.

>Tenacity

We pursue new opportunities and solutions with **integrity** and persistence.

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>Teamwork

We are **honest** and work as one team to achieve our common goal.

>Owner's Mindset

We strive towards **excellence** and take care and responsibility in everything we do.



SNAPSHOT - YANGIBANA

Significant value upside from development of the Yangibana Rare Earths Project and Niobium by-product credit stream

\$474m

Total Capital Cost

\$154m

Invested in early infrastructure²

\$320m

Remaining Capital Cost²

\$465m

Total Assets¹

21.5%

Shareholding in Neo Performance Materials Inc.

\$865m

NPV₁₁ (post-tax, ungeared)

Major shareholders

15% Executive Chairman Charles Lew & family Office

32% Top 20 Shareholders

9.8%

JL Mag. Investment⁴





¹ As per Hastings' Half Year Report (31 December 2023)

² As at 30 June 2024

³Total Rare Earth Oxides

⁴ Refer ASX announcement "Leading Permanent Magnet Producer, JL Mag to become 9.8% Strategic Investor in Hastings", dated 9 July 2024



Yangibana Project

World-class project with robust economics Reserve inventory of 20.93mt with 188kt of contained TREO³, supporting 17-year mine life

Onslow •

WESTERN AUSTRALIA

Carnarvon

Gascoyne Junction

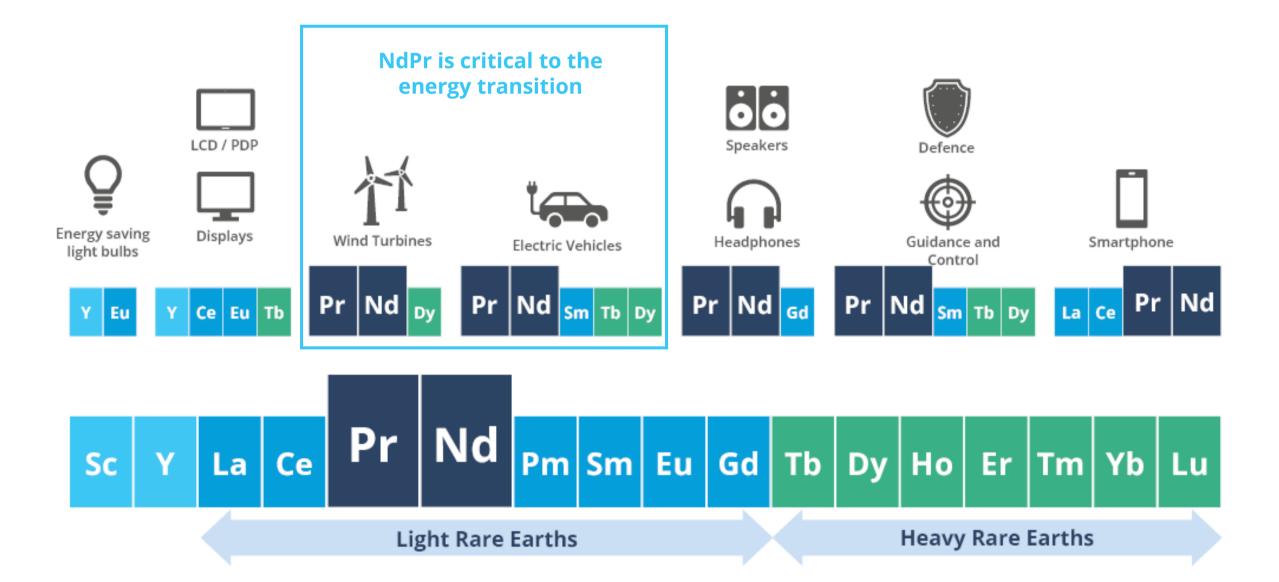
Geraldton

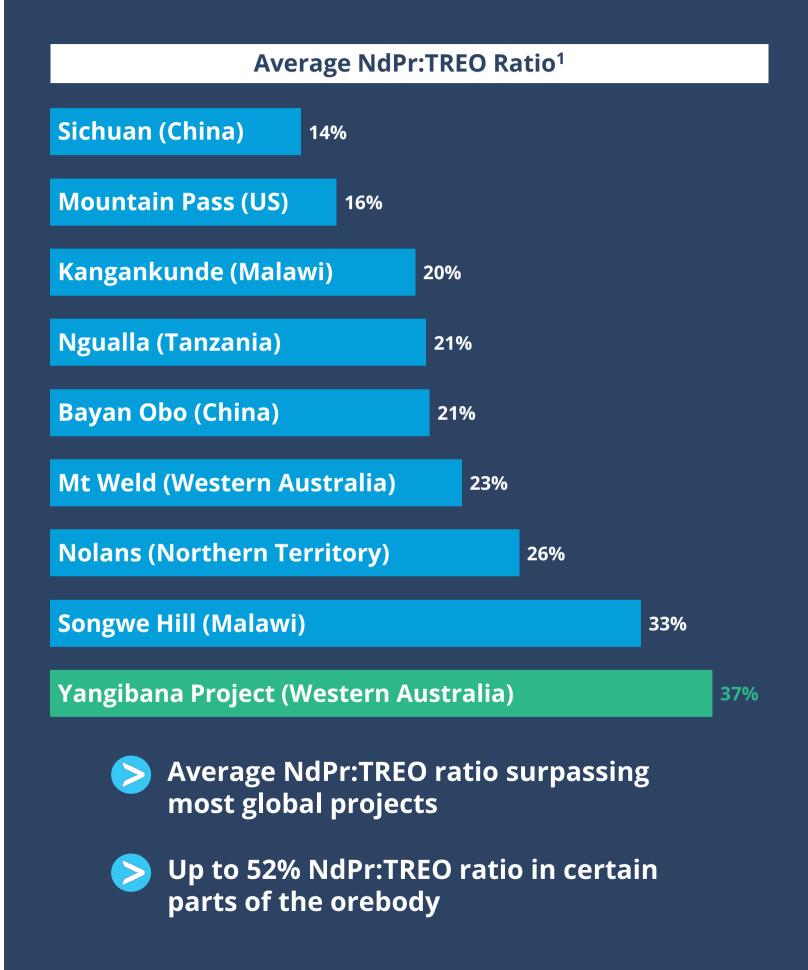
Perth •



YANGIBANA - UNIQUE TIER ONE ASSET

World-class deposit with unrivalled high percentage of NdPr:TREO in the orebody in a tier one jurisdiction, supplying the critical raw materials for rare earth magnets







YANGIBANA PROJECT SNAPSHOT

Fully permitted and high-margin project with multigenerational opportunities for the Gascoyne region

17-year

Life-of-mine

37%

Average NdPr:TREO ratio over life of mine, driving higher realized rare earth oxide basket price

~1.1mtpa

Material to the crusher, followed by a grinding and flotation circuit

Employment

Construction Jobs >470 Operations Jobs >270

20.9mt

Ore Reserves

High margins

First quartile on global operational margin curve, as verified by CRU Group

37,000tpa

Rare earth concentrate at 27% TREO, containing ~3,400tpa of NdPr oxide

Economic contribution

>\$1bn (US\$0.65bn) in Commonwealth tax income

>\$240m (US\$156m) in WA state royalties >\$65m (US\$42.2m) in Native Title royalties

Refer to disclaimer on Slide 2 for cautionary statements





CAPITAL COSTS

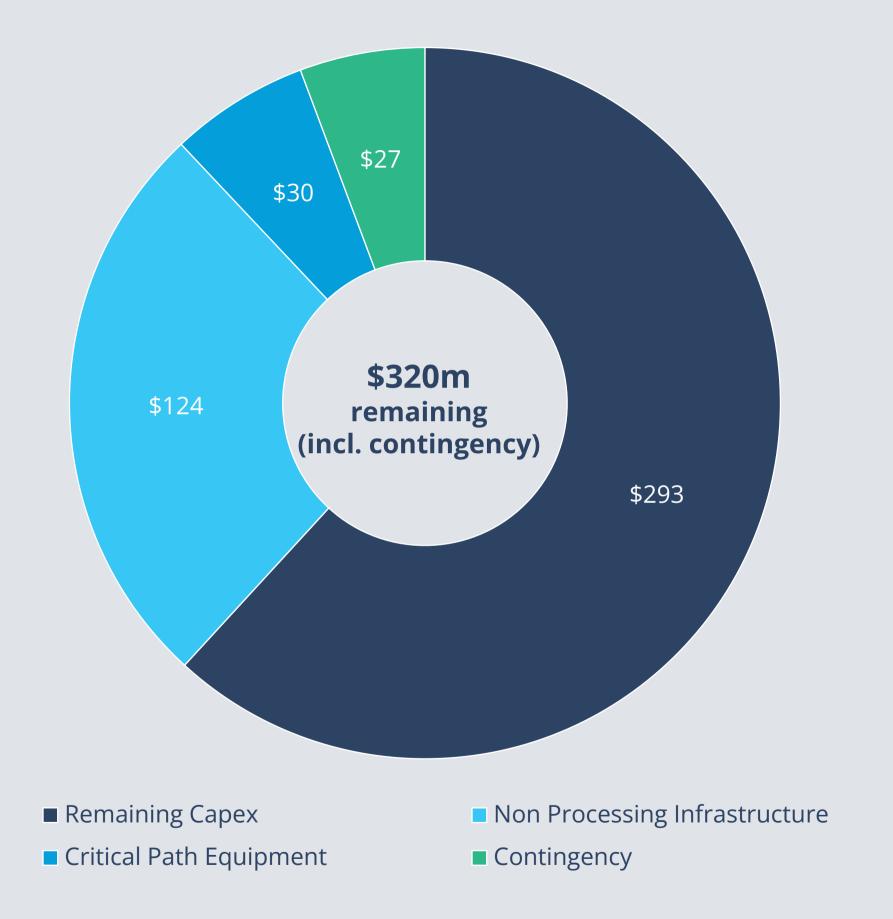
\$154m capital investment¹ provides strong base to ramp up construction. \$320m remaining capital cost.

- \$154m Capital Cost incurred¹
 Represents 32% of total capital cost (including contingency)
- Non-Processing Infrastructure
 \$124m (US\$80m) invested to date¹ in early site works
 - Kurrbili Accommodation Village
 - Yangibana Airstrip
 - SipHon Well Borefield
 - Site Access Roads
- Critical path equipment

\$30m (US\$20m) invested to date¹ in long lead items

- In Transit/Delivered SAG Mill; Regrind Mill; Flotation Cells; Thickener; Belt feeder; Mill Liner Handler; number of pumps; MCC & VSD
- Fabrication is complete for all long lead items
- **EPC** contract

\$210m (US\$136m) contract awarded to leading WA engineering and construction company GR Engineering Services





YANGIBANA PROJECT PROGRESS

Early infrastructure completed and long lead time items available



Kurrbili Village - 294 rooms fully commissioned with medical centre, sports court, shop, dry and wet mess.



Yangibana Airstrip - 2km in length, suitable for planes up to 70 seat capacity. The airport buildings are in place ensuring fast changeovers for employees.



Site Access Roads - 20km site access road to connect the Yangibana Project's mine site with the shire road network to the beneficiation plant, village, mine and construction work.



SipHon Borefield - Fully permitted consisting of 6 bores, fully equipped with holding tanks and high flow pumps and pipeline to the process plant.



Equipment – Long Lead Equipment in WA and in storage ready for installation.



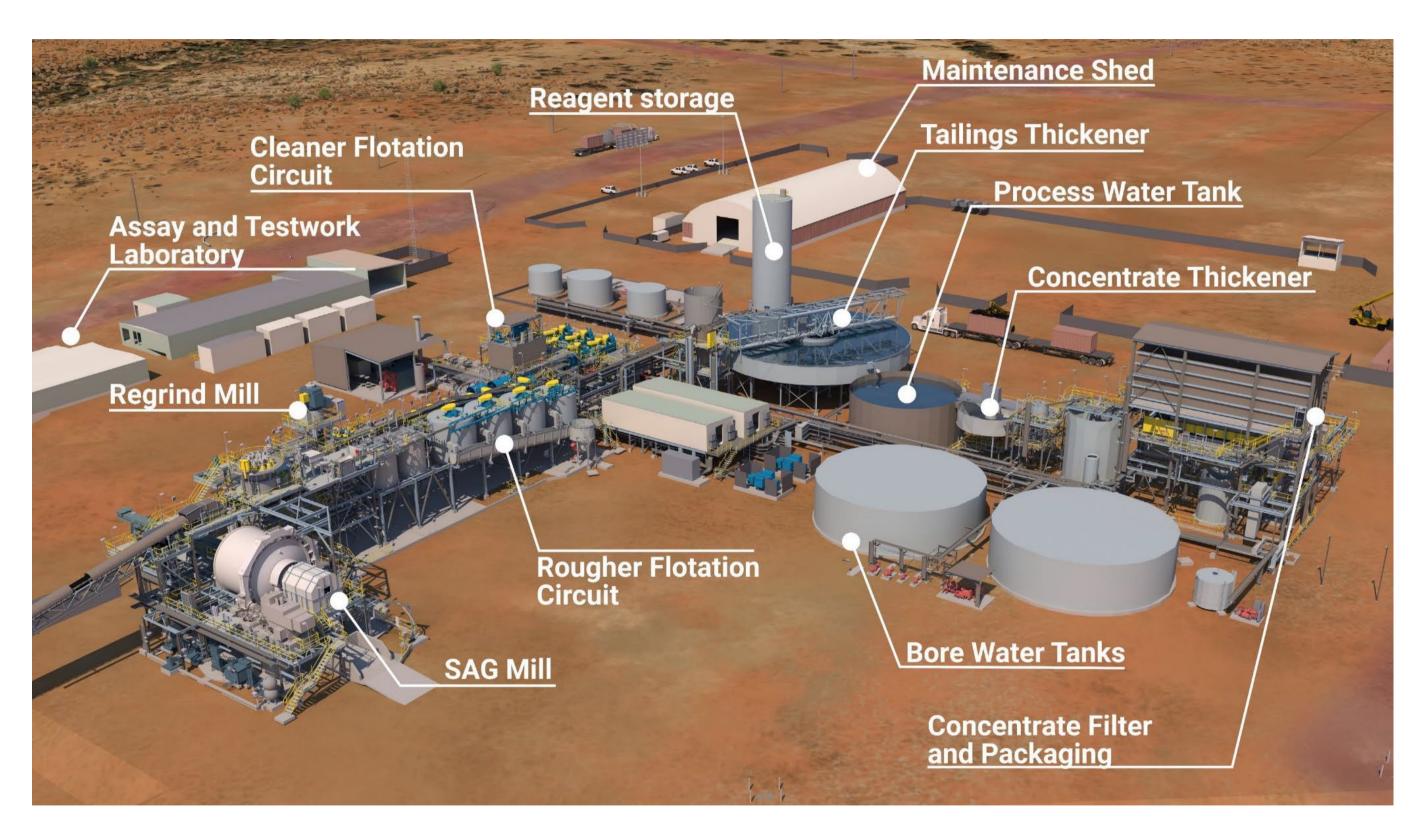
Flotation Cells & Structural Steel ready for installation.



BENEFICIATION PLANT CONSTRUCTION

EPC contract with leading engineering and construction firm GR Engineering Services





- \$210m (US\$136m) contract
 Fixed price lump sum contract
- Lowers project delivery risks, lower cost, greater certainty on timeframe, process and product quality guarantees
- Performance guarantees

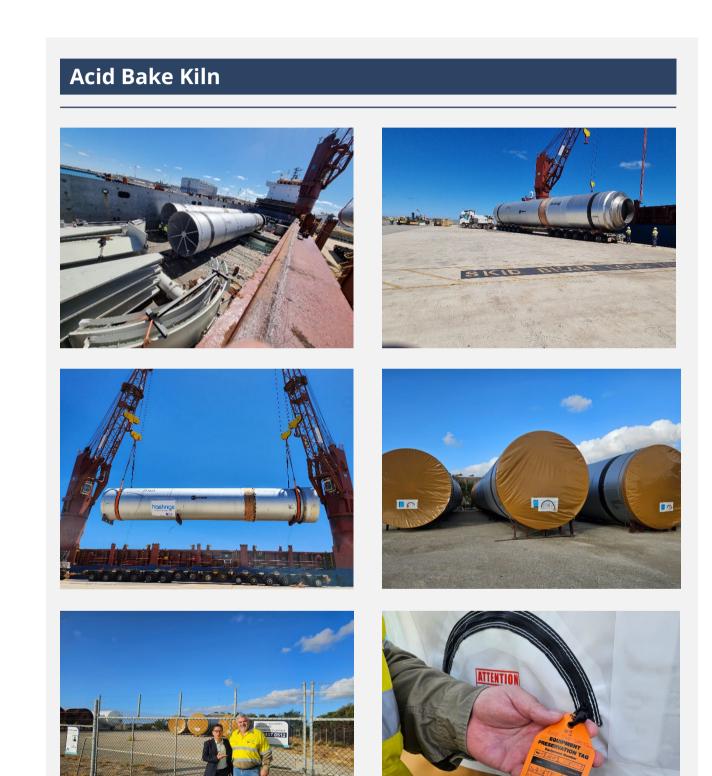
 Commissioning and operational support to ensure facility achieves quality and throughput guarantees

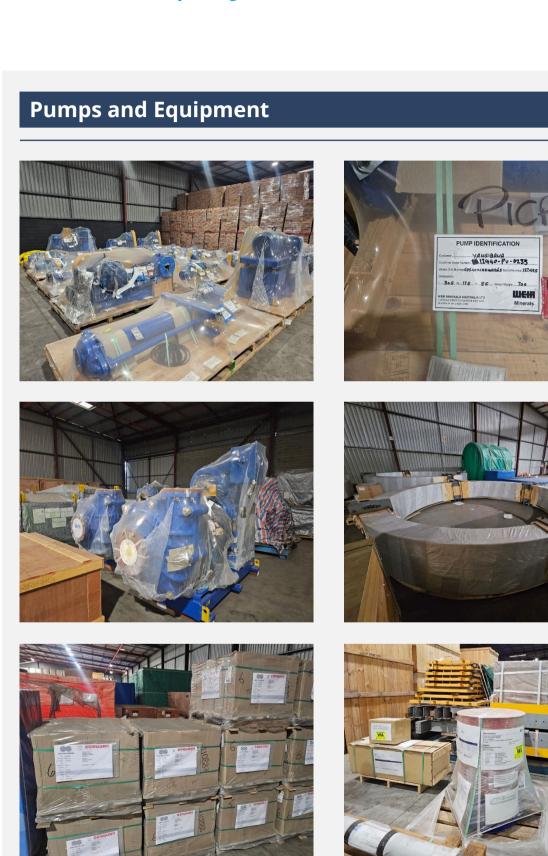
Proposed Beneficiation Plant layout

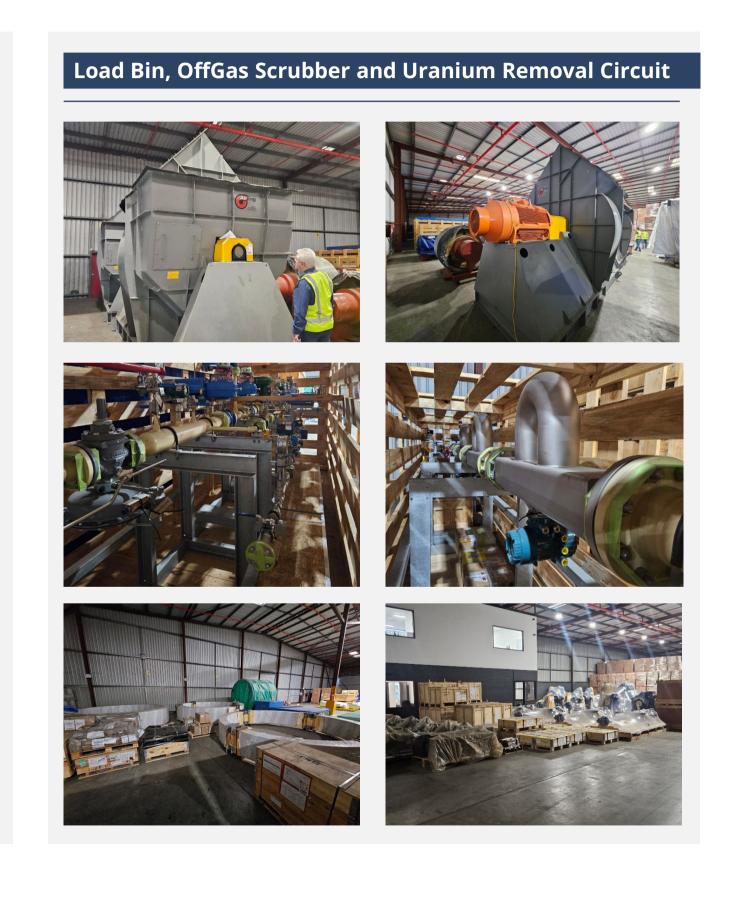


LONG LEAD TIME EQUIPMENT PROCURED AND IN STORAGE IN PERTH

Significant Long Lead Time Items available for deployment



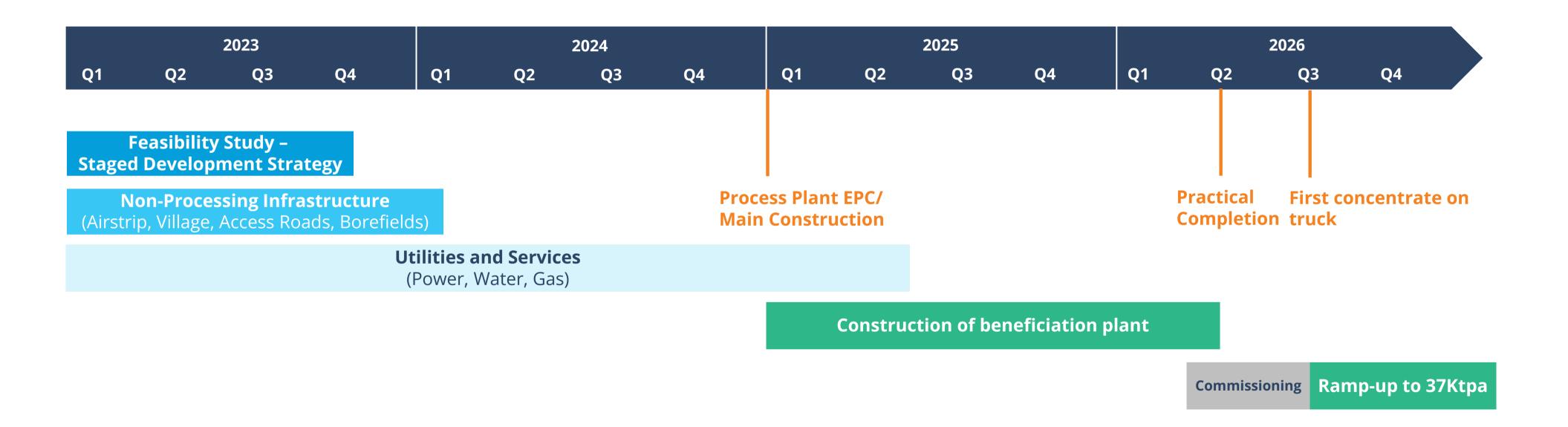






PROJECT EXECUTION INDICATIVE SCHEDULE

Staged development strategy enabling a quicker pathway to cashflow





JL MAG TAKES 9.8% STRATEGIC STAKE

Hastings welcomes investment by JL Mag Rare-Earth Co., Limited, the leading global permanent magnet producer

STRATEGIC INVESTMENT

- The world's leading producer of rare earths permanent magnets JL Mag to make \$7m strategic investment in Hastings (19.6m shares at \$0.36 cents per new ordinary share)
- JL Mag will own 9.8% of the enlarged issued share capital of Hastings, and Han Yu, Vice President of JL Mag, will join the Board of Hastings
- The price (\$0.36/sh) is at a premium of:
 - 22.8% to 10-day VWAP \$0.2932; and
 - 38.8% to 30-day VWAP \$0.2593 up to and including 5 July 2024
- JL Mag has the ability to participate in future capital raisings to maintain its 9.8% shareholding
- Investment proceeds will be used to advance the flagship Yangibana Rare Earths Project in Western Australia towards production, of which 32% of total project cost has been completed.

ABOUT JL MAG

- World's number one producer of high-performance rare earth permanent magnets by volume and is also widely acknowledged as the world leader in the application of Grain Boundary Diffusion technology for magnets
- JL Mag's global customer base includes: the world's top 10 New Electric Vehicles ("NEV") manufacturers, eight of the world's top ten variablefrequency air-conditioners ("VFAC") compressor manufacturers and five of the world's top ten wind turbine generators
- Hong Kong Stock Exchange listed JL Mag (HKSE:6680) has a market capitalization of HK\$17.7bn / \$3.4bn also listed on the Shenzhen Stock Exchange (SZSE:300748)
- Sales in 2023 were \$1.4bn; EBITDA of \$129m; cash of \$819m¹

Global Customers

















































PROJECT ECONOMICS

Robust Financial Metrics

\$865m (US\$562m)

Post-tax NPV₁₁ (ungeared)

\$9,639m (US\$6,265m)

Net revenue (Life-of-Mine)

Key Material Assumptions / Updates

The Base Case Financial Model ("BCFM") assumptions adopted in the Staged Development Study released on 31 May 2023 continues to apply and has not materially changed, save for the following key updates:

- Offtake and payabilities: Shift from domestic profitsharing model to rare earth concentrate sale and thirdparty processing (hydrometallurgical and oxide separation) to achieve a full rare earth oxide basket price, on terms expected in the term sheet with Baotou Sky Rock. Adjustments to yields and costs may be required following pre-production pilot test work, as contemplated in the Term Sheet. Negotiations are ongoing with other potential customers to conclude similar arrangements.
- **Spent capital cost:** \$154m (US\$99m) of capital cost estimate incurred as of 30 June 2024.

31.28%

Post-tax IRR (ungeared)

\$3,345m (US\$2,174m)

Free cash flow (Life-of-Mine)

- **Commodity price:** Average 10-year blended neodymium and praseodymium ("NdPr") oxide price (Wood Mackenzie, CRU, Adamas Intelligence) of US\$121/kg real, 2024\$ (reduction from US\$129/kg adopted in the Staged Development Study).
- **Stage 1 standalone**: The impact of Stage 2 for the Yangibana Project (i.e. the potential hydrometallurgical plant) is excluded from the economic analysis.
- **Mining:** Mine schedule optimisation for the first five years of mining targets lower strip ratio zones of the Yangibana Project's ore bodies, while maintaining the grade to the beneficiation plant. The total ore processed remains at 20.9Mt, the mine life remains at 17 years, and annual average production of rare earth concentrate remains at 37,000tpa as per the ASX Announcement 'Yangibana Ore Reserves increase by 25%' dated 6 February 2023

3.4 years

Payback period

\$258m (US\$168m)

Average EBITDA per annum

- Macroeconomics: FX Forward (Bloomberg January 2024), 10-year average AUD:USD 0.65.
- **Cost assumptions:** Incorporation of MREC and oxide separation fees based on the fees provided in the Term Sheet, updated power tariffs (40% renewable) from Independent Power Producer, and other revisions for escalation.



GREEN FINANCE AND ESG

Yangibana Project will produce critical minerals to power the energy transition

Second Party Opinion

- Hastings Green Bond Financing Framework and Carbon Reduction Transition Plan reviewed by DNV
- US\$300m Senior Secured Green Bond Issue is aligned with the International Capital Market Association's ("ICMA") Green Bond Principles ("GBP")
- Carbon Reduction Transition Plan is aligned with the Climate Transition Finance Handbook.



Sustainable water

and wastewater

management

ICMA GBP Eligibility Criteria



Rare earth permanent magnets power over 90% of Electric Vehicle ("**EV**") motors

Energy efficiency

Rare earth permanent magnets in EV motors improve energy efficiency compared to induction motors

Renewable energy

Rare earths are key components of direct-drive wind turbines; investment in solar photovoltaic ("PV") for Yangibana Project's operations

Minimising water consumption and promoting recovered and recycled water to create a more sustainable operation

Yangibana Project potential to supply

170GW

turbine capacity

Up to **82**% of water requirements at Yangibana met by recovered process water – equivalent of **1,200** Olympic-sized swimming **pools** per annum

| Agency | Rating |
|---|---|
| sustainalytics a Morningstar company RATED | Included in Sustainalytics' 2024 ESG top rated companies list |
| TASK FORCE ON CLIMATE-RELATED FINANCIAL DISCLOSURES | Formal supporter of the Task Force on Climate- Related Financial Disclosures |
| (W) IFC | Positively assessed against the IFC performance standards (World Bank) |
| 2022 ecovadis Sustainability Rating | Gold Rating – ranked in the top five per cent of companies assessed |
| United Nations Global Compact | Participant of the Ten Principles of the UN Global Compact |
| EQUATOR PRINCIPLES | Positively assessed against the Equator Principles IV (World Bank) |

Yangibana Project potential to supply

55 million EVs

Reducing carbon emissions by approximately 1.2 billion I Installed direct wind tonnes CO₂e, compared to internal combustion engines

ESG Credentials





NIOBIUM MARKET

Niobium is a critical and strategic mineral

~90% of the world's niobium produced by Brazil²

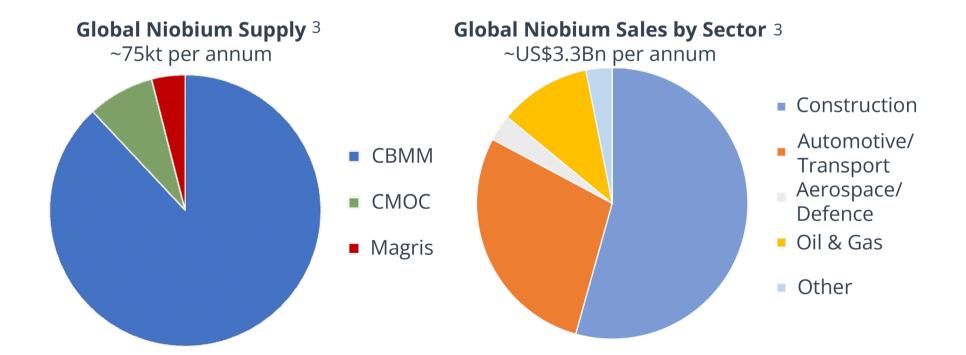
Listed as a critical mineral by the US, Australia¹, India, Japan, China and the EU. Ranked number 2 out of 50 on the US Critical Minerals List²

Majority of niobium used in steel

Approximately 90% of all niobium is consumed in steelmaking. For example, the strength of the steel can be increased by more than 30% by adding 0.03-0.05% niobium.

High-tech uses emerging (Lithium-ion batteries)

Key growth area is Niobium's potential use in the next generation of Li-Ion Batteries (Faster Charging) many other potential high-tech applications including superconducting magnets used in medical imaging devices, magnetic levitation trains and nuclear reactors.



Niobium Demand Drivers³



Stronger and lighter steel for buildings, bridges & megainfrastructure projects

0.025% Niobium in the steel of the Viaduct de Millau bridge reduced the overall weight by 60%⁴



Growing demand for lighter weight and more fuel efficient cars, trucks and buses

300g Nb reduces weight of mid-sized car by 200kg and increases fuel efficiency by 5%⁴



Next Gen
NiobiumLithium-Ion
Batteries

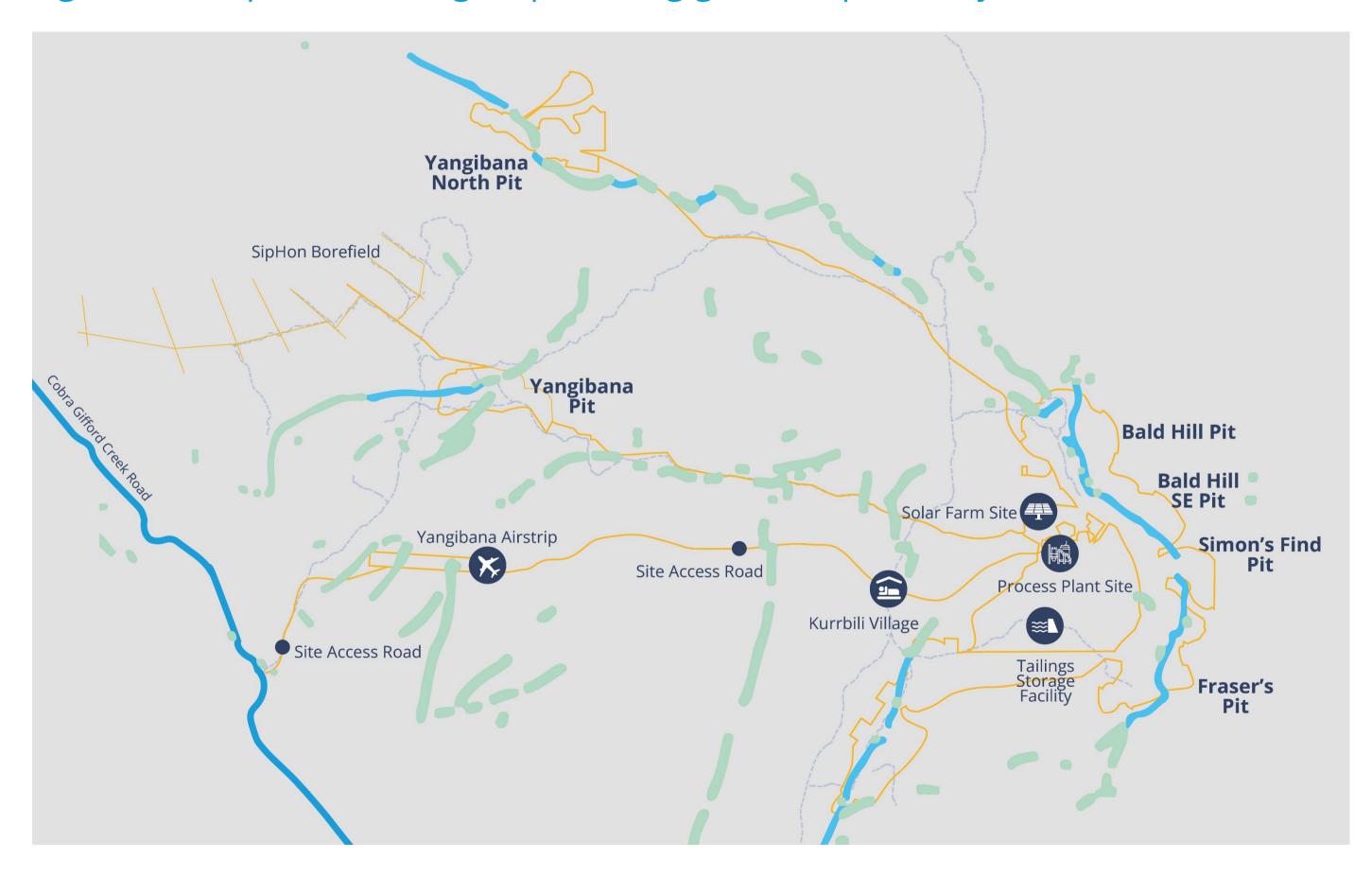
Significant potential demand CBMM expects nearly 35ktpa Nb oxide sales by 2030⁵ (270t in 2022)



- ¹ Australia's Critical Minerals List https://www.industry.gov.au/publications/australias-critical-minerals-list-and-strategic-materials-list
- ² Critical Mineral Resources National Policy and Critical Minerals List (8 April 2024): https://sgp.fas.org/crs/misc/R47982.pdf
- ³ NioCorp Presentation Q2 2024: https://gx0d43.a2cdn1.secureserver.net/wp-content/uploads/Detailed_NioCorp_Presentation_Q2-2024.pdf
- ⁵ https://www.fastmarkets.com/insights/brazils-cbmm-niobium-batteries-2030/

RESOURCE AND RESERVE DEVELOPMENT

Significant exploration targets providing growth optionality (Rare Earths and Niobium)



- Priority areas identified to expand mine life beyond initial 17-years to build long-term value for shareholders
- Significant exploration upside with only one-third of strike length (24km) defined as a resource
- **Exploration target**40 60 million tonnes, confined to ironstone hosted mineralisation
- Existing 29.93mt Mineral Resource has been defined over 24km of strike length
 - Additional exploration potential strike length of 42km identified

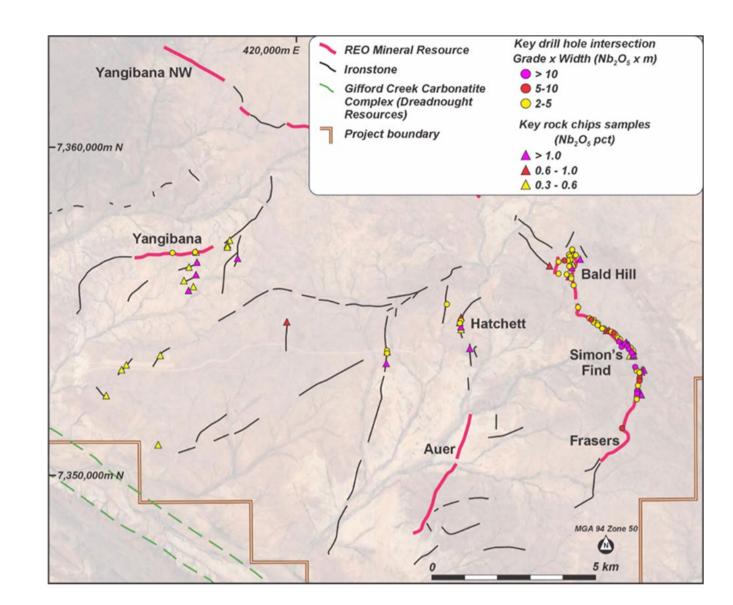


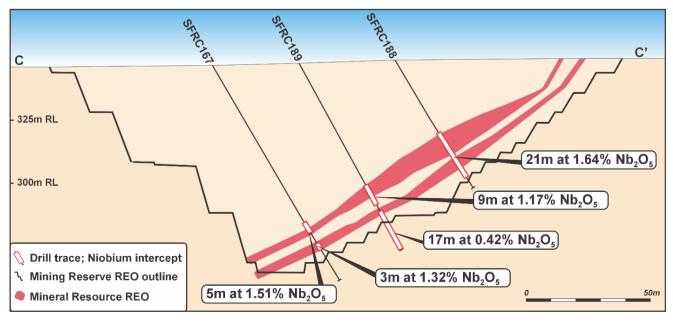
NIOBIUM AT YANGIBANA RARE EARTHS PROJECT

There are niobium occurrences noted in all prospects of the Yangibana Rare Earths Project

- Niobium (Nb_2O_5) concentrations occur in the form of mineral ferro-columbite at the Yangibana Project over a 4-kilometre strike at the existing Simon's Find and Bald Hill deposits.
- Historical mineralised drill intersections at the Simon's Find prospect, previously announced on 9 October and 22 November 2017, include:
 - 5.45m at 5.3% Nb₂O₅ from 27.55 metres (SFDD002)
 - 10m at 2.66% Nb₂O₅ from 7 metres (SFRC065)
- Additional mineralised drill intersections at the Simon's Find prospect include:
 - 21m at 1.64% Nb₂O₅ from 34 metres (SFRC188)
 - 15m at 1.82% Nb₂O₅ from 61 metres (SFRC174).
- Niobium mineralisation is not limited to the Simon's Find deposit with significant occurrences identified in drill chips at both the Bald Hill and Hatchett prospects, and in outcrops at the Yangibana and Yangibana South prospects.

 Mineralised drill intersections include:
 - 11m at 0.54% Nb₂O₅ from 24 metres (BHRC548)
 - 12m at 0.47% Nb₂O₅ from 55 metres (BHRC550)
 - 6m at 0.70% Nb₂O₅ from 17 metres (HARC005)



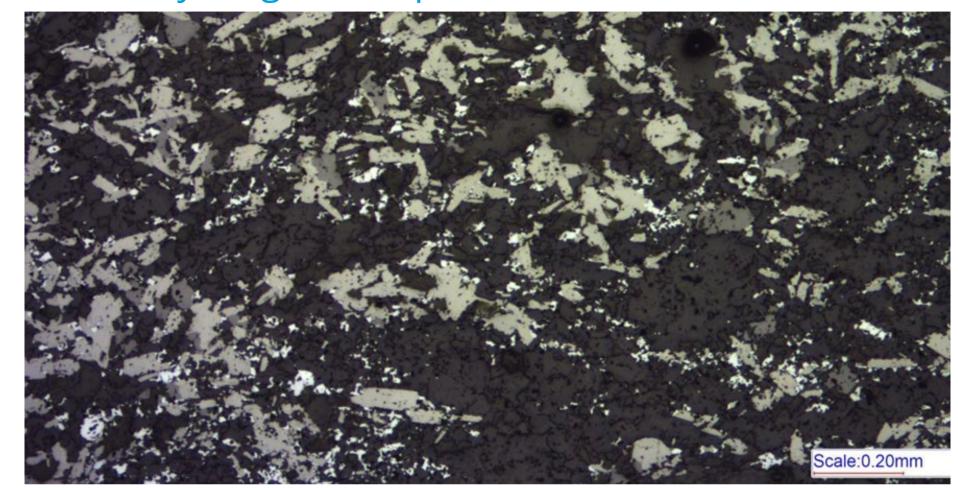




METALURGICAL TEST WORK

Niobium upgraded by 19 times using gravity separation and low intensity magnetic separation

- Initial metallurgical test work using gravity separation followed by low intensity magnet separation, the initial test work recovered and concentrated the ferrocolumbite to 16.88% Nb₂O₅ from a 0.87% Nb₂O₅ feed, a **19 times uplift of niobium grade.**
- Further metallurgical test work results and maiden Resource Estimate for niobium are expected by the end of 2024.
- Hastings is expediting the investigation of including a niobium (Nb) circuit to its Yangibana Rare Earths Project to provide a multi-commodity recovery process stream
- The potential for by-product credits from niobium in addition to Hastings' primary focus on the rare earths elements' (Nd, Pr, Dy, Tb) income stream







STRATEGIC HIGHLIGHTS

Summary

- World-class rare earth deposit with high proportion of neodymium and praseodymium (average of 37% over mine life) in the rare earth basket.
- Ideally placed to produce minerals critical for the global energy transition and meet expected supply deficit.
- Initial 17-year Life of Mine.
- Shovel ready and fully permitted with \$154m (32% of total Capex) invested to date.
- Significant exploration upside including heavy rare earths.
- Significant upside as a future Niobium producer with potential material by-product credit in addition to rare earths¹.







SOURCE DOCUMENTS

| PEER COMPRISON - NDPR:TREO RATIO | | | | | | | | | |
|----------------------------------|---|-----------|-------------------------|---------------------|--------------------------|------------|------------------------|--------------------|---|
| Mine | Ownership | Ticker | Stage of Development | Capex (A\$m) | Reserves Tonnage (mt) | TREO Grade | Category | NdPr:TREO ratio | Source |
| Yangibana | Hastings Technology Metals Ltd | HAS:ASX | Pre-production | 503 | 20.93 | 0.90% | Proven and Probable | 37% | 6 February 2023: ASX Announcement: "Yangibana Ore Reserves Increase by 25%" |
| Songwe Hill | Mkango Resources Ltd | MKA:TSXV | Feasibility | 479 | 18.15 | 1.16% | Proven and Probable | 33% | 5 July 2022: SEDAR Announcement: "Mkango Announces Results of Definitive Feasibility Study For The Songwe Hill Rare Earths Project In Malawi - NPV of US\$559.0 Million And IRR of 31.5%" |
| Nolans | Arafura Rare Earths Ltd | ARU:ASX | Pre-production | 1,680 | 29.50 | 2.90% | Proven and Probable | 26% | 11 November 2022: ASX Announcement: "Nolans Project Update" 13 December 2023: ASX Announcement: "Arafura Rare Earths: Equity Raise Presentation" |
| Mt Weld | Lynas Rare Earths Ltd | LYC:ASX | Production | N/A | 19.7 | 8.60% | Proven and Probable | 23% | 6 August 2018: ASX Announcement: "Lynas announces a 60% increase to Mt Weld Ore Reserves, one of the world's richest sources of Rare Earths" |
| Bayan Obo | China Northern Rare Earth Group High-Tech Co Ltd | 600111:CH | Production | N/A | >2,200 | 2.55% | Proven and Probable | 21% | 15 December 2020: Ord Minnett Report, "Hastings Tech Metals, Thematic Firing" S&P Capital IQ Pro: Property ID 31805 Reserves and Resources |
| Ngualla | Peak Rare Earths Limited | PEK:ASX | FEED Completed | 441 | 18.5 | 4.8% | Proved and Probable | 21% | 24 October 2022: ASX Announcement: "Ngualla Rare Earths Project Completion of Bankable Feasibility Study Update" 30 November 2023: ASX Announcement: "Completion of FEED Study" |
| Kangankunde | Lindian Resources Limited | LIN:ASX | Feasibility | A\$60m (US\$40m) | 261 (Resource) | 2.14% | Inferred | 20% | 3 August 2023: ASX Announcement: "Maiden Mineral Resource" 7 Feb 2024: ASX Announcement: "Indaba Mining Conference Presentation" 1 July 2024: ASX Announcement: "Kangankunde Project Stage 1 Outstanding Feasibility Study Results" |
| Mountain Pass | MP Materials Corp | MP:NYSE | Production | N/A | 29.3 | 6.32% | Proven and Probable | 16% | 28 February 2023: SEC Filing: Form 10-K – Annual Report, |
| Sichuan | Rising Nonferrous Metals Share Co. Ltd | 600259:CH | Production | N/A | N/A | N/A | N/A | 14% | 15 December 2020: Ord Minnett Report, "Hastings Tech Metals, Thematic Firing" |

| MINERAL RESOURCES AND ORE RESERVES ¹ | | | | | | | |
|---|--|-------|-------|-------------|--|--|--|
| TOTAL JORC (2012) MINERAL R | ORC (2012) MINERAL RESOURCES (30 OCTOBER 2022) | | | | | | |
| Category | mt | %TREO | %NdPr | TREO tonnes | | | |
| Measured | 4.97 | 0.96 | 0.37 | 47,721 | | | |
| Indicated | 19.51 | 0.88 | 0.32 | 171,936 | | | |
| Sub-total | 24.49 | 0.90 | 0.33 | 219,657 | | | |
| Inferred | 5.45 | 1.05 | 0.31 | 57,298 | | | |
| TOTAL | 29.93 | 0.93 | 0.32 | 276,955 | | | |

| TOTAL JORC (2012) ORE RESERVES BY DEPOSIT (6 EFBRUARY 2023) | | | | | | | |
|---|-------|-------|-------|------------|--|--|--|
| Deposit | mt | %TREO | %NdPr | NdPr: TREO | | | |
| Bald Hill | 8.12 | 0.79 | 0.32 | 41 | | | |
| Fraser's | 1.77 | 1.01 | 0.43 | 43 | | | |
| Simon's Find | 2.69 | 0.53 | 0.28 | 53 | | | |
| Auer | 2.83 | 0.96 | 0.34 | 35 | | | |
| Yangibana | 1.31 | 0.79 | 0.37 | 47 | | | |
| Yangibana North | 4.21 | 1.29 | 0.34 | 26 | | | |
| TOTAL | 20.93 | 0.90 | 0.33 | 37 | | | |



HASTINGS STRATEGY

Building on the long-life of the Yangibana Project to unlock value through downstream processing opportunities



Mixed Rare Earth Carbonate

Processing



Rare Earth Oxides

Separation



Metals and Alloys

Refining



Permanent Magnets

Manufacturing

Yangibana Mine and Beneficiation Plant

Establishing Hastings as a leading Australian supplier of rare earth concentrate

Pursue downstream opportunities

Developing processing capability to capture higher margins

Mine to magnet

Exploring opportunities to build a vertically integrated rare earths to magnet business through its 21.5% investment in Neo Performance Materials Inc.



hastings

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