



Iluka Resources

Diversifying the rare earths supply chain



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All figures are expressed in Australian dollars unless stated otherwise.



ILUKA

Sustainable

A safe, responsible and sustainable supplier of critical minerals

Established Australian Assets

The world's largest zircon mine
Significant mineral processing and separation facilities

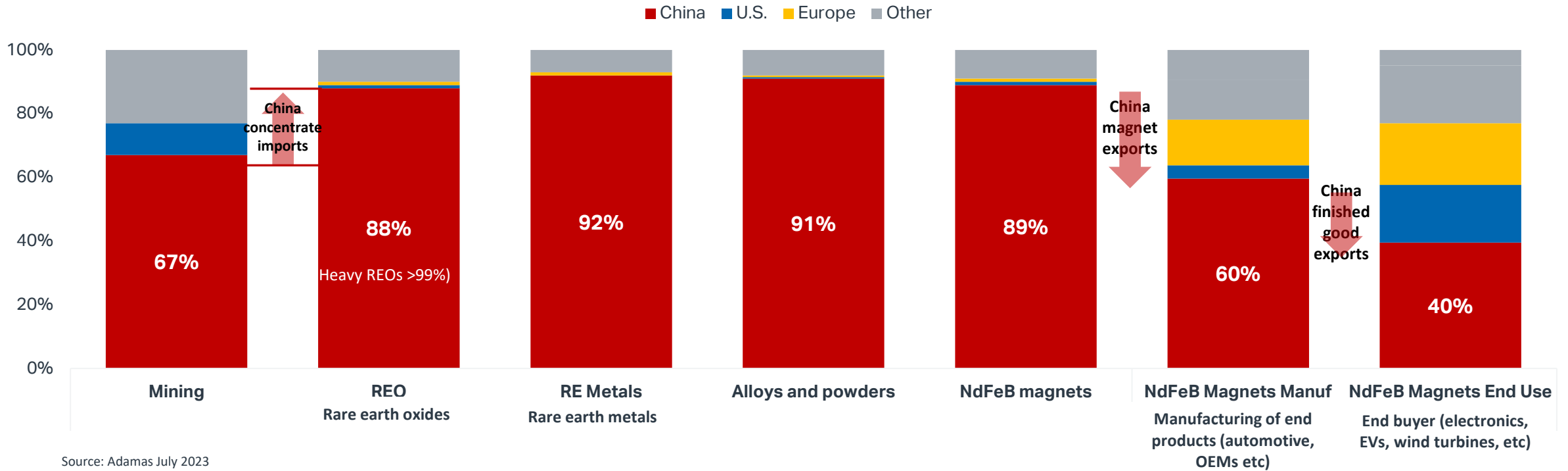
Over 70 Years of Experience

Iluka is a globally significant producer of zircon and high grade titanium feedstocks; and will be a globally material supplier of rare earth oxides

Rare earth supply chain dominated by China's vertical integration

China accounts for approximately **~90% of all rare earth oxide** production globally;
and effectively **100% of all heavy rare earth oxide** production

Global market share of rare earth supply chain (2023 estimate)



Source: Adamas July 2023

Chinese vertical integration across value chain

Chinese supply to rest of world end markets 4

Extensive government initiatives for critical minerals security

Minerals Security Partnership

Catalyse public and private investment in responsible critical minerals supply chains globally

Australia, Canada, Estonia, Finland, France, Germany, India, Italy, Japan, Norway, the Republic of Korea, Sweden, the United Kingdom, the United States, and the European Union (represented by the European Commission)



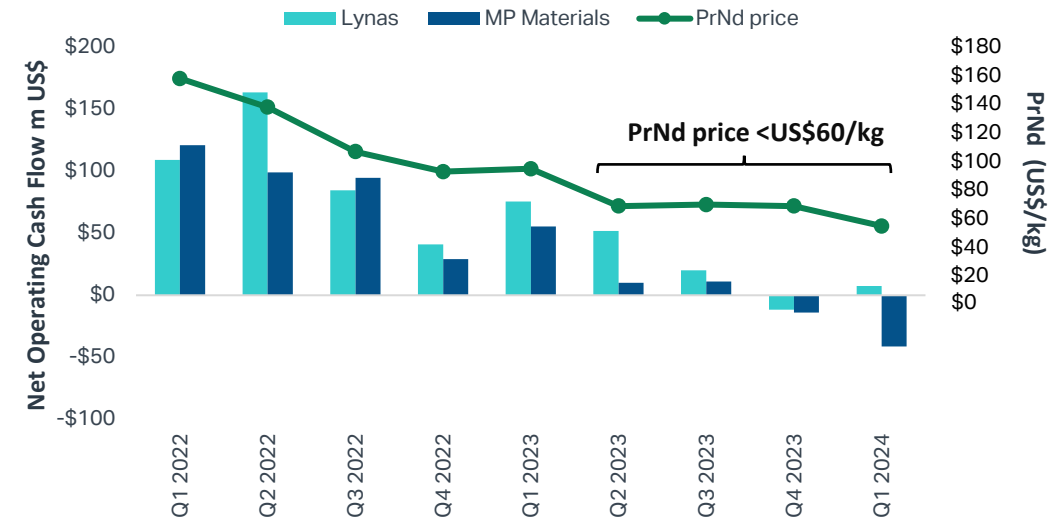
Current price settings for rare earths are not sustainable



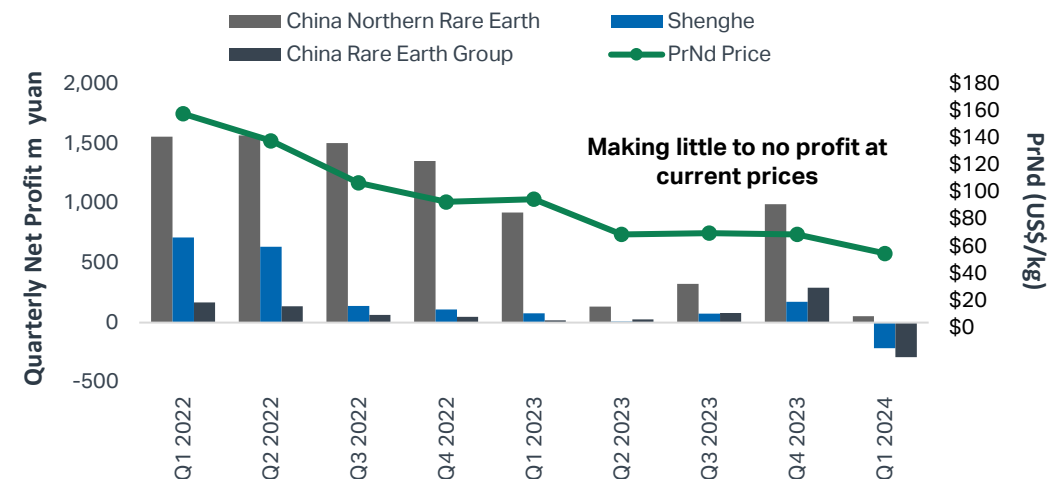
China has consolidated its rare earths enterprises, forming two mega conglomerates, enhancing China's pricing power



Western RE producers quarterly net operating cash flow vs PrNd price*



Chinese RE producers quarterly net profit vs PrNd price



Source: Company reports, Asian Metal, Bloomberg

*Net profit excluding non-recurring gains and losses. Lynas Rare Earths converted from A\$ to US\$ at a rate of 1:0.65

High Grade Titanium Feedstocks

- \$270m Iluka Cataby mine project executed underpinned by binding offtake agreements for 85% of forecast production
- Few titanium mines under construction; long approval and construction lead times
 - planning essential to bring sufficient volume to market
- Contracts provided supply certainty and price clarity to customers

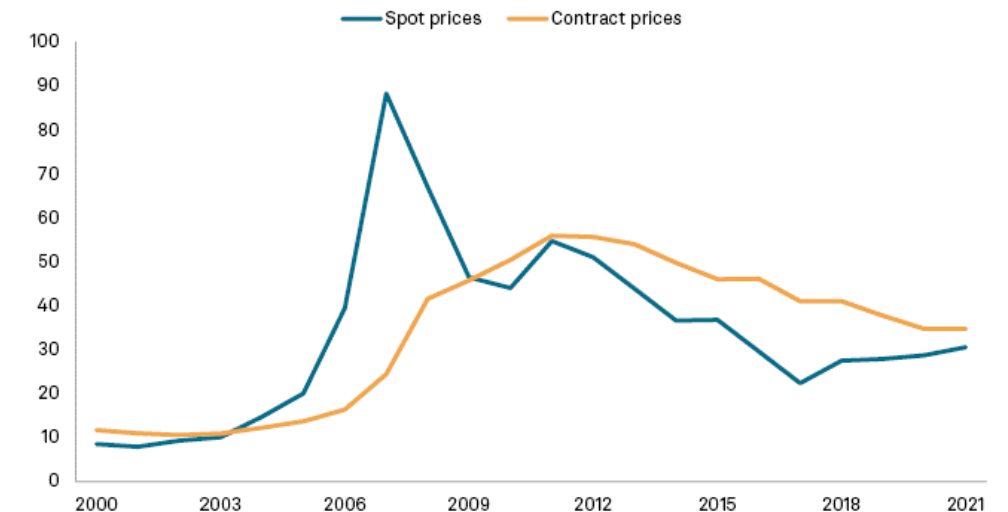
Uranium

- Sold under long term contracts to ensure security of supply; limited volume available on spot-market
- Contracts negotiated bilaterally and contemplate fixed prices escalating over the term, market related pricing mechanisms, and often include floor and ceiling prices

"What I hear the [uranium] miners saying is, 'Yes, we're standing ready and we're making the plans to ... in the longer term, build up new mines...But we will only do so when we have the certainty that the customer base is following it. And therefore we need the long-term contract for independent investment."

Laurent Odeh, chief commercial officer at Urenco Ltd. to S&P Global Commodity Insights

Annual uranium prices, 2000-2021 (\$/lb)

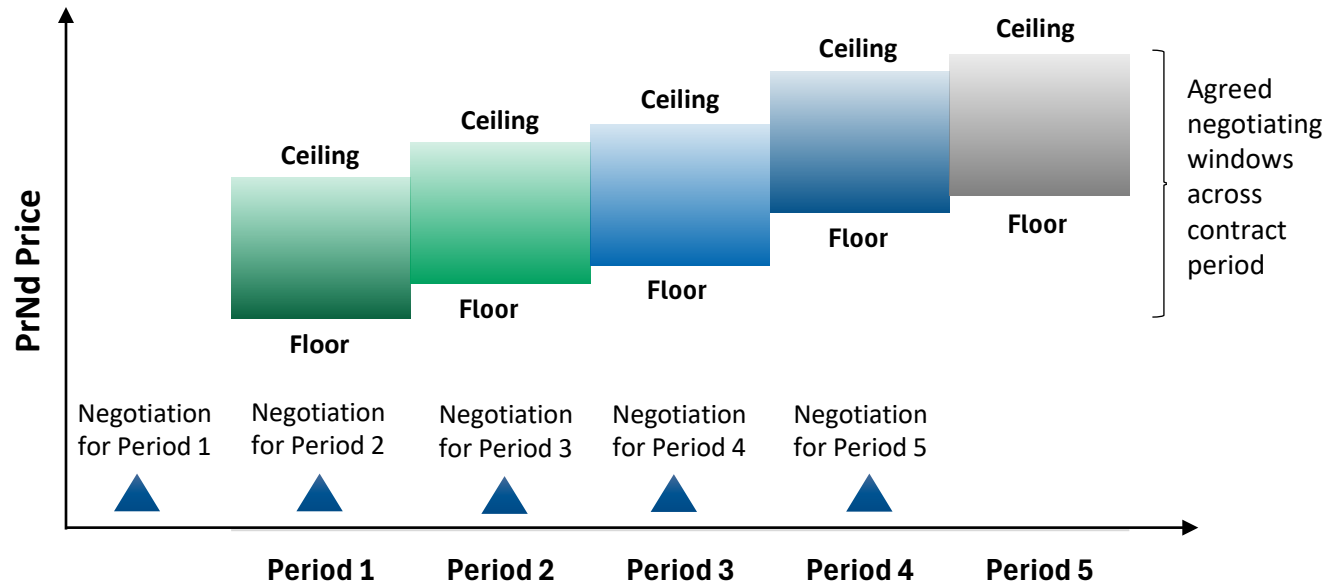


As of Oct. 13, 2022.
Prices are volume-weighted annual averages.
Source: U.S. Energy Information Administration.
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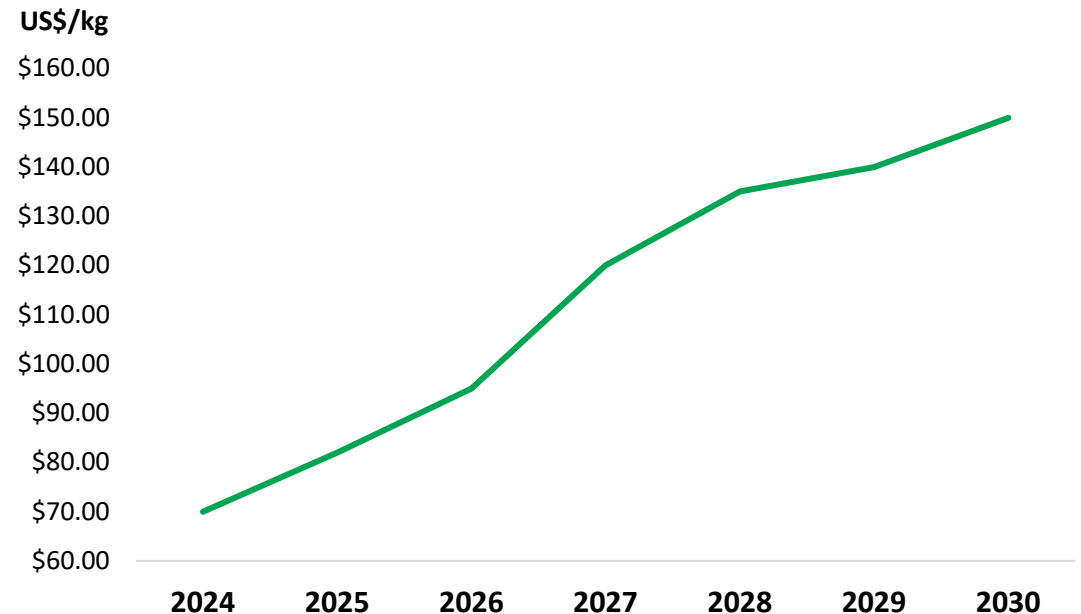
An alternative pricing mechanism

- Parties set floor and ceiling price boundaries to apply throughout the contract term
- Prior to each delivery period, parties negotiate a final price within the boundaries for that period
- Delivery period negotiation process and limited termination rights incentivise agreement
- Price boundaries provide certainty; long term contract with reliable supplier provides security of supply

Conceptual Pricing Mechanism



Forecast PrNd Oxide Price – Adamas Intelligence Q2 2024

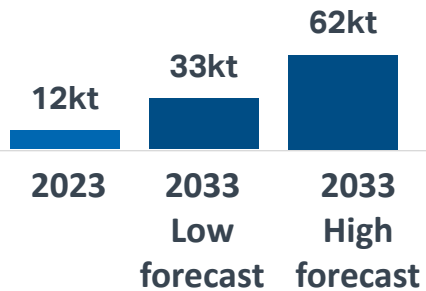


Strong demand fundamentals

Global demand forecasts vary on market penetration of renewable energy technologies; materially higher amounts of Nd, Pr, Dy and Tb will be required

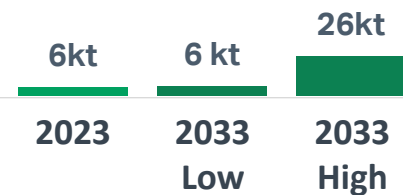
Global demand for PrNd (kt)¹

Electric Vehicles



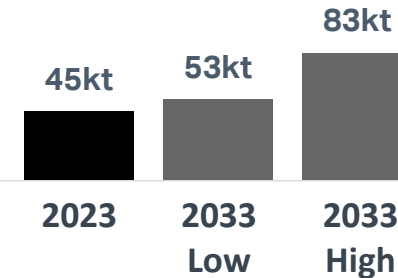
	2023	2033
Dy / Tb	0.5 kt	1.3 – 3.0 kt

Wind Power



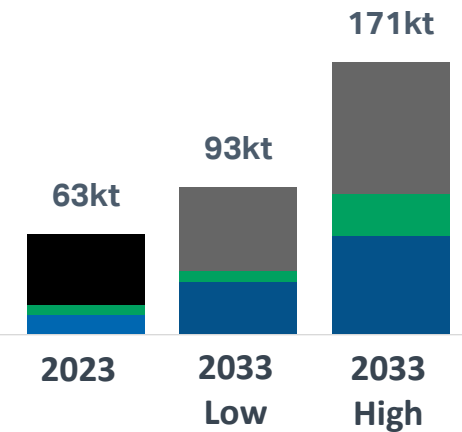
	2023	2033
	0.2 kt	0.3 – 1.6 kt

Other Sectors²



	2023	2033
	0.3 kt	0.4 – 0.6 kt

Total



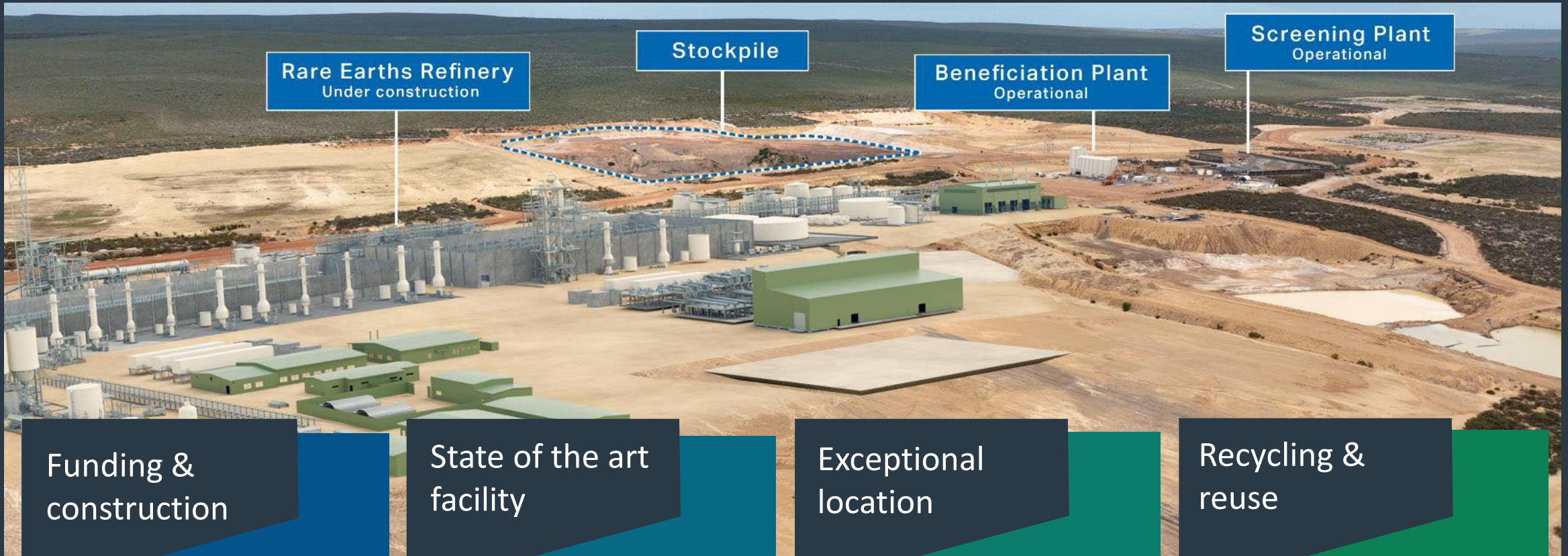
	2023	2033
	1.1 kt	1.9 – 5.1 kt

1. Iluka's estimate with inputs from Adamas, Project Blue, Argus and other data sources (e.g.: IEA, Wind Energy Council, McKinsey)
 2. Other automotive uses, consumer electronics, speakers, cordless power tools, industrial applications, speakers, home appliances, etc.

Eneabba rare earths refinery



ILUKA



Funding & construction

Supported by the Australian Government through a \$1.25 billion non-recourse loan. Construction commenced.

State of the art facility

Flexible design to process a range of feedstocks with capacity of up to 23,000 tpa of light and heavy separated rare earth oxides.

Exceptional location

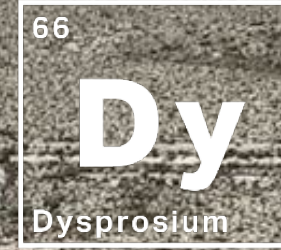
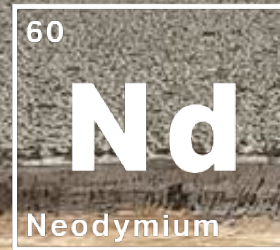
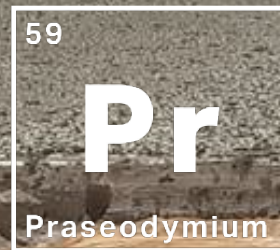
Located 150km south of Geraldton Port; and 300km north of Perth and Fremantle Port. High quality water source and existing facilities.

Recycling & reuse

Zero-liquid discharge refinery design; closed circuit system recycles and reuses water and reagents, reducing waste markedly

🌿 The Eneabba stockpile is a low carbon source of rare earths.

It contains enough rare earths to produce ~58,000t of permanent magnets



A rare earths processing hub

All of Iluka's deposits contain rare earths; each of our mining developments will contribute feedstock to the Eneabba refinery

SCOPING

- Typhoon
- Tripitaka
- Iluka holds the rights to additional deposits

PRELIMINARY FEASIBILITY STUDY

- Atacama
- Euston

DEFINITIVE FEASIBILITY STUDY

- Wimmera
- Tutunup

PROJECT EXECUTION

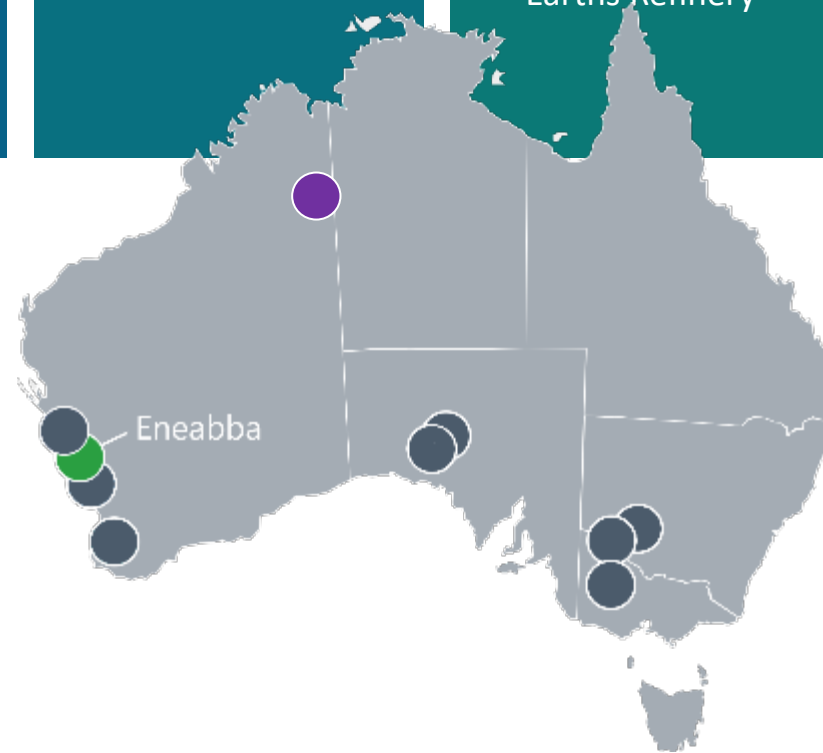
- Balranald
- Eneabba Rare Earths Refinery

OPERATIONAL

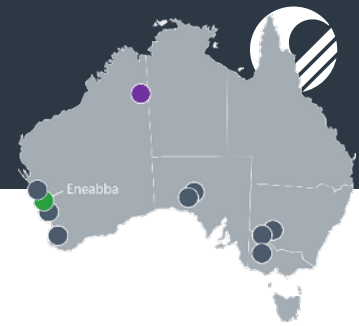
- Jacinth-Ambrosia
- Cataby
- Narngulu Mineral Separation Plant
- Capel Plant

PARTNERSHIPS

- Northern Minerals
- Others under discussion



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Eneabba Rare Earths Refinery

Max. output of separated rare earths oxides from the Eneabba refinery; final output dependent on feedstock assemblage.

PrNd Oxide

5,500t p.a.

Dy/Tb Oxide

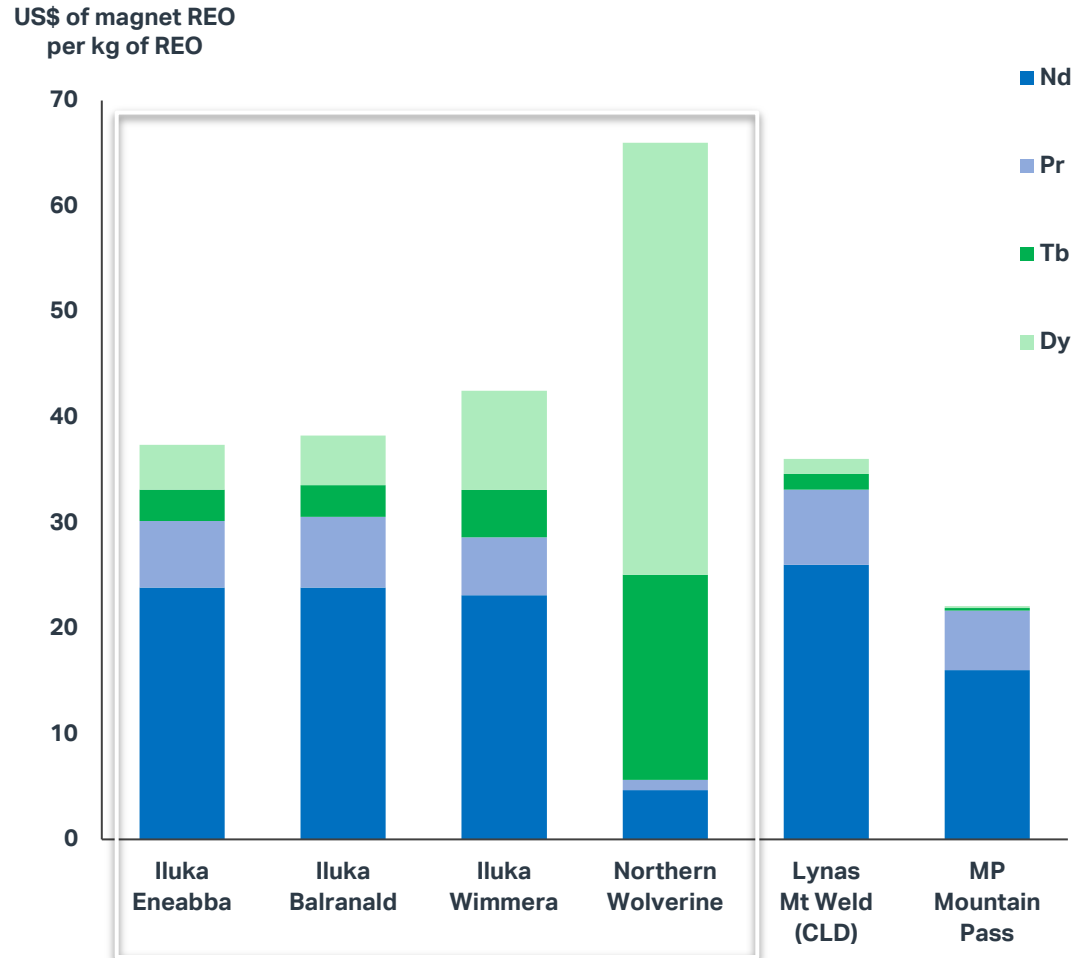
725t p.a.

Total REO capacity

23,000t p.a.

A secure supply of heavy rare earths

Magnet REO contribution to basket value @ Adamas 2025-30 prices



Eneabba stockpile

~1 million tonnes of high grade concentrate, rich in light and heavy rare earths. Readily available at surface.

Refinery could be filled for ~5 years with stockpile alone¹

Internal Iluka options

Balranald – in execute; will deliver an additional 5,000 t.p.a. of rare earth concentrate from 2026

Wimmera² – definitive feasibility study underway; potential additional 15,000 t p.a. of rare earth concentrate with a mine life of 25+ years

Third party agreements

Northern Minerals strategic partnership agreed³ - includes the supply of all of NTU's available rare earth concentrate from their Brown's Range project (total contained rare earth oxide ~30,000 t)

Source: Iluka, Adamas Intelligence Q4 2023, *Resource Geology* and company reports

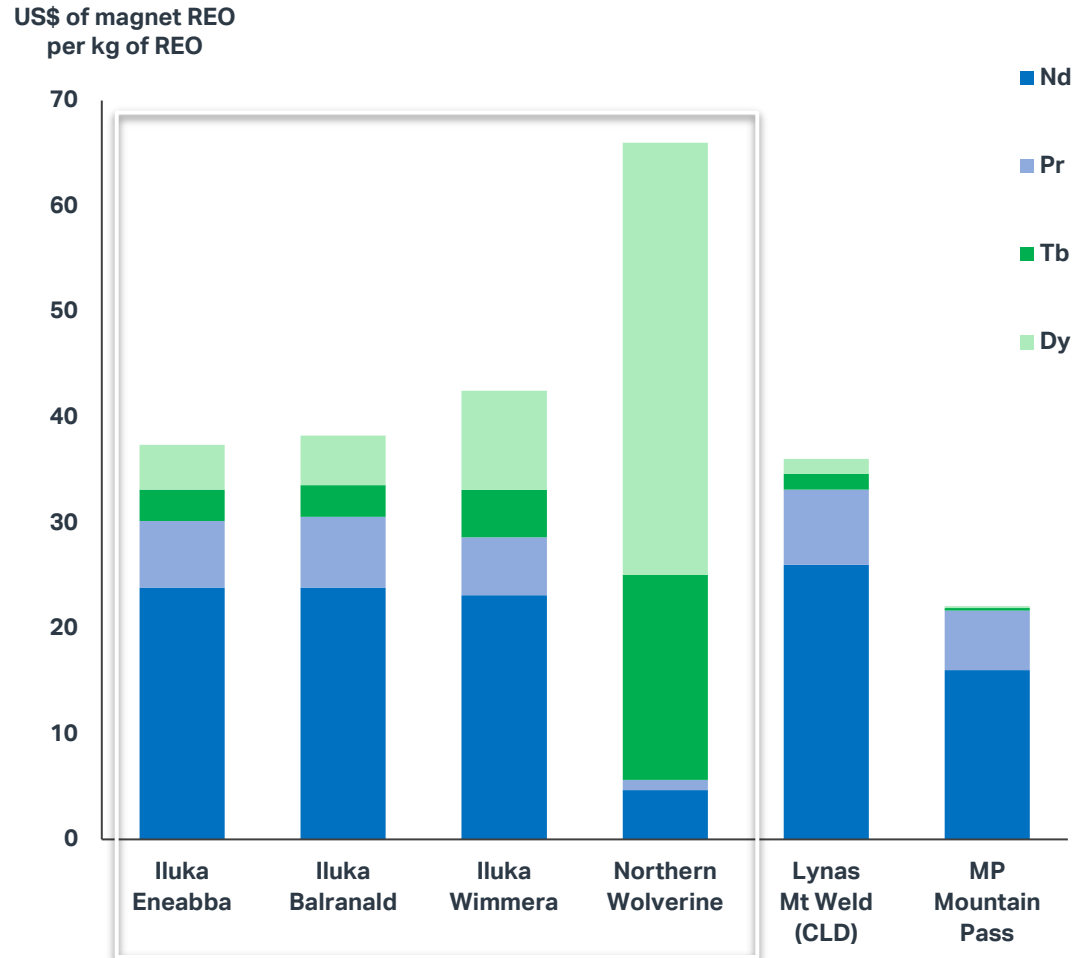
1: Further detail in Iluka ASX release, 'Eneabba Rare Earths Refinery Final Investment Decision Presentation', 4 April 2022.

2: Wimmera is an Iluka deposit in Victoria, Australia which is a multi decade source of zircon and rare earths

3: Under Iluka's strategic partnership with Northern Minerals, Iluka will purchase concentrate from Northern's Browns Range project as an additional source of feedstock to the Eneabba rare earths refinery. Rare earth oxides will be marketed and sold by Iluka.

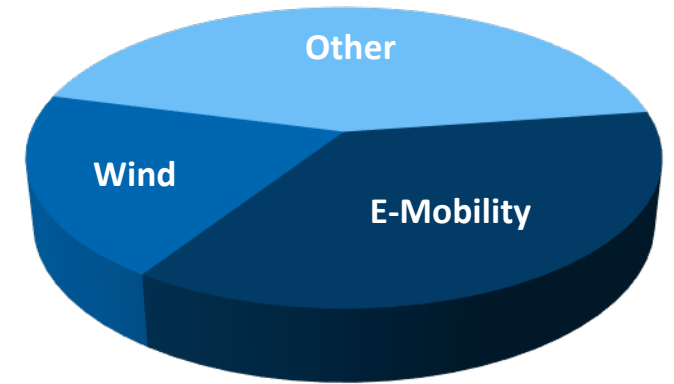
A secure supply of heavy rare earths

Magnet REO contribution to basket value @ Adamas 2025-30 prices



~35% of 2030 demand of global refined Dy-Tb forecast to come from e-Mobility requirements and 20% from Wind requirements

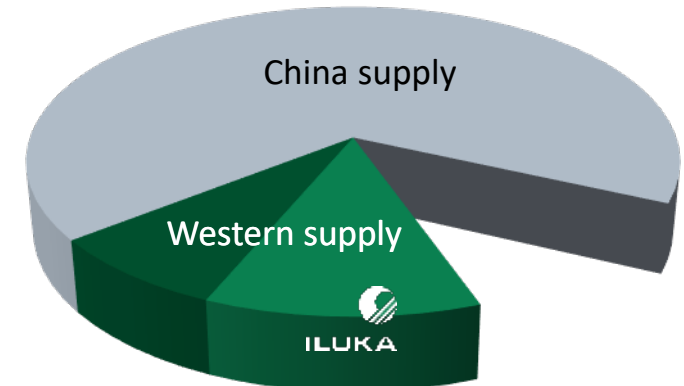
2030 Global Demand Dy/Tb



2030 global supply of Dy-Tb is forecast to fall short of total demand

Iluka's refinery, at capacity, would account for more than half of forecast Western supply

2030 Global Supply Dy/Tb



Automotive demand based on EV powertrain motor Permanent Magnet containing 1.8% Dy/Tb oxide

Source: Iluka, Adamas Intelligence Q4 2023, Resource Geology and company reports

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Through strategic partnerships and collaboration, Iluka has de-risked its rare earths diversification financially and technically



Australian Government

Risk sharing partnership includes a A\$1.25 billion non-recourse loan through the Critical Minerals Facility.

The loan includes features to support resilience of the Eneabba Refinery in the face of potential technical, operational and/or market challenges.



Your partner for Rare Earths

Preeminent source of Western expertise for rare earths refining (based in France).

Embedded within Iluka's owner's team for Eneabba project since 2020. Knowledge and technology transfer agreement to build Iluka's capability.

Metallisation

Iluka has commenced a study to evaluate the economic and technical viability of a rare earths metallisation facility Study, scheduled for completion H1 2025 at total cost of ~\$15 million

Sustainability and security of supply



✓ Guaranteed supply of both light and heavy rare earths

- Low risk development, supported by the Australian Government
- Multi decade supply options – Iluka has a stockpile and pipeline of projects for rare earths
- Strategic infrastructure asset – flexible design can process feedstocks from third parties

✓ Sustainably produced products

- Transparent and independent emissions assessments

✓ Experienced and reputable partner

- Operating for over 70 years, servicing 250+ direct customers globally
- World's leading zircon producer and significant titanium feedstocks producer
- Rare earth industry experts – Carester is the technology partner for Iluka's refinery