

Iluka Resources (ASX:ILU) Macquarie Conference, 8-9 May 2024

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A global critical minerals company

Iluka is one of the world's largest producers of zircon; a major producer of high grade titanium feedstocks; and is set to become a significant global supplier of refined rare earths

Iluka's production is located exclusively in Australia



Critical minerals for everyday life

Zircon, titanium and rare earths are used in an array of everyday applications and are critical for sustainable development, including global electrification

Operational experience

Over 70 years of critical minerals exploration, mining, processing, marketing and rehabilitation, with a pipeline of quality projects to meet growing demand

ASX listed

Listed on the Australian Securities Exchange (ASX:ILU), market capitalisation of A\$3.4bn¹

20% holding in Deterra Royalties (ASX:DRR), cornerstone asset of BHP Mining Area C iron ore royalty, market capitalisation of A\$2.6bn¹

Sustainable supply chain

A safe, responsible and sustainable supplier of critical minerals, supporting the transition to a modern, lower carbon economy

1. As at 7 May 2024



Mineral sands: Iluka's core business

Market update – zircon

Ongoing tightness for premium zircon and Iluka's disciplined approach supporting the price.

Q1 2024 result	 Sand sales of 48kt plus 11kt of zircon-in-concentrate (ZIC) Zircon premium and standard price of US\$1,873/t 				
	Premium zircon market remains tight				
Market	 Demand reflects underlying consumption with customers reluctant to restock 				
commentary	China ceramics remains subdued but other market segments stable				
	Sentiment improving in Europe				
Outlook	Sand sales for Q2 exceeding Q1Prices for Q2 have increased modestly				



Americas 9%

Note: 1. The weighted average realised price in Q4 2023 benefitted from a reversal of accruals of US\$120/t. Price shown is net of accruals at US\$1,925/t.

Market update – high-grade titanium feedstocks

Take-or-pay synthetic rutile contracts provide high degree of revenue certainty. Rutile sales achieve price premium in welding market.



Note: 1. Rutile sales volumes includes HYTI. a lower value titanium dioxide product, HYTI, that typically has a titanium dioxide content of 70-90%. This product sells at a lower price than rutile, which typically has a titanium dioxide content of 95%. 2. Rutile sales price excludes HYTI.

Marketing approach

Focus on delivering sustainable prices Prices negotiated with customers based on value in use and other factors

Zircon and titanium products are not exchange traded commodities

Direct channels to market

pricing Sustainable approach

Value in use

Direct marketing and customer relationships

> Product innovation and technical support

Product specifications important to customers and drive value

Products developed to meet evolving industry demands

Warehouses positioned close to key marketsGlobalMultilingual / multinational salesforcelogistics

Industry monitoring and analysis

Reputation for quality, consistency and delivery

network

Well recognised brand Highly regarded with quality products and service

Focus on understanding markets and customers

Hub and spoke distribution model

Industry knowledge and analysis creates competitive advantage



Debunking rare earth industry myths

The problem



"The Middle East has its oil, China has rare earths" Deng Xiaoping, 1987

China's industrial policies have for over three decades targeted global supply chain domination in rare earths critical to many modern technologies.

The rest of the world is today reliant on Chinese supply of rare earth permanent magnets to meet electrification goals and industry supply requirements.

Rare earth supply chain dominated by China's vertical integration

China has vertically integrated its rare earth industry from oxides to metals, alloys, powders and magnets.

Pricing and other support mechanisms ensure market dominance across the value chain to ultimately support value add end use industries including electronics, electric vehicles and wind turbine manufacture.

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



China U.S. Europe Other

Chinese vertical integration across value chain Chinese supply

Chinese supply to rest of world end markets

Asian Metal Index price = effective Chinese policy

The Asian Metal Index is the only publicly available price index for rare earth oxides. It is influenced by actions of the Chinese government and Chinese enterprises.

The Asian Metal Index is not a reflection of free market dynamics.



Chinese Rare Earth Office "Yue Tan" the major rare earth producing companies, with intent to:

- 1. Promote and improve pricing mechanism for rare earth products
- 2. Jointly guide product prices to return to rationality
- 3. Promote the sustainable and healthy development of the rare earth industry

Full announcement in Appendix

The Chinese Ministry of Industry and Information Technology set quotas (typically six monthly) for rare earth mining and smelting and separation. The quotas act to preserve the longevity of Chinese rare earth deposits but do not purport to control total rare earth oxide production. The quotas only apply to mining and separation of domestic feed. Processing of imported concentrate is not subject to quotas and only limited by

Chinese capacity and access to imported feed sources.



Source: Ministry of Industry and Information Technology (miit.gov.cn)

China sources over 20% of rare earth oxide feedstock from imported concentrates (including from the US, Myanmar, Madagascar).

Imports have been growing strongly as China secures feed for its downstream processing.



difficult to estimate

of mineral sands which also contain rare earths

Myanmar is main source of heavy rare earths. Conflict and closure of border in 2022 reduced imports

2023



Impact of rare earth price on producers

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Price impact on Chinese producers

Current price levels are impacting profitability of Chinese producers.

The three major Chinese rare earth companies reported negative cash flows and little to no profit in Q1 2024.





*Net profit excluding non-recurring gains and losses

Source: Company reports, Asian Metal

Quarterly operating cash flows of Lynas (ASX:LYC) and US-based MP Materials (NYSE:MP) show the impact of low NdPr prices and show the level is not sustainable for ongoing operations.







Implications for the rare earth industry

1. China's business model is reliant on imported feed

China imports over 20% of feed for its rare earth refineries, more for heavy rare earths.

This allows it to expand downstream processing capacity and preserve the longevity of its domestic deposits.

2. Current price level is not sustainable

At current prices, companies supplying China are not economic.

China's own state supported enterprises are losing money.

3.

New supply is needed for this growth industry with strong fundamentals

Global electrification is reliant on electric motors, which in turn run on rare earth permanent magnets.

Strong demand growth is forecast across key end applications including electric vehicles and wind turbines.

New supply of sustainable, independent rare earths will be critical.



Global demand forecasts vary on market penetration of renewable energy technologies, substitution and magnet composition.

Additional NdPr oxide required over the next decade is 30 - 108 thousand tonnes. Materially higher amounts of DyTb also required in currently supply constrained market.

		Global demand for NdPr (kt) ¹									
	Electric Vehicles		Wir	Wind Power		er Sectors ²	Total	Total			
	33 12kt	62kt kt	6kt	26kt 6 kt	45kt	83kt	93kt 63kt	171kt			
	2023 203 Lo fore	33 2033 w High cast forecast	2023	2033 2033 Low High	2023	2033 2033 Low High	2023 2033 Low	2033 High			
	2023	2033	2023	2033	2023	2033	2023	2033			
Dy / Т	b 0.5 kt	1.3 – 3.0 kt	0.2 kt	0.3 – 1.6 kt	0.3 kt	0.4 – 0.6 kt	1.1 kt 1.9	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.



Iluka's Eneabba refinery opportunity

Eneabba rare earths refinery, Western Australia



Brownfield site, access to major utilities



Site has all major utilities power, water, gas, roads, rail

Iluka has operated at Eneabba since the 1970s

Producing separated light and heavy rare earths ***

~ 5.5 kpta NdPr capacity

~0.75 ktpa DyTb capacity

Commissioning end 2026



Major employer

Construction workforce ~300 Operational workforce ~270

Camp at Eneabba township, 250km from Perth

Permanent waste



Facilities constructed inside previous mining voids without rehandle

Iluka's Eneabba refinery opportunity

1.

Downstream processing producing sustainable, secure rare earths

Eneabba will be a multi-decade piece of infrastructure complementing Iluka's mineral sands business and catalysing domestic industry through sovereign downstream processing

The refinery is being delivered through risk sharing arrangements with the Australian Government, underpinned by the unique Eneabba stockpile and Iluka's disciplined capital allocation approach and focus on sustainable value

2.

Independent rare earth oxide supply

Diversifying the global rare earth supply chain with sustainable, secure supply

Iluka's customer offering will include full product provenance and strong ESG credentials

Product prices will reflect value of the product and be negotiated through bilateral agreements

3. Facilitating global electrification

Eneabba will produce separated light and heavy rare earths, both critical in the production of sustainable energy technologies and other applications, including defence technologies

Building Australia's first fully integrated rare earths refinery

Iluka's approach to rare earth marketing

Iluka is experienced in selling specialty minerals through direct customer relationships and is targeting EV OEMs who can redirect material to their preferred suppliers.

Engagement also includes other market segments, such as consumer electronics and defense.



Iluka's approach to its rare earths business

Prices for rare earth oxides to reflect the true value of the product, including supply security and traceable product provenance attributes; and not to be inextricably linked to prices set by the Asian Metal Index

Financial risk mitigation through a strategic partnership with the Australian Government

Operational readiness and technical expertise supported by eminent industry experts Carester

Catalysing an independent rare earth industry



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Appendix

4 March 2022: Ministry of Industry and Information Technology of the People's Republic of China, Department of Raw Materials Industry announcement

The Rare Earth Office interviewed key enterprises on the price of rare earth products

In view of the continuous rise and high market prices of rare earth products, on March 3, the rare earth office interviewed key rare earth enterprises such as China Rare Earth Group, North Rare Earth Group, and Shenghe Resources Company. The meeting demanded that the relevant enterprises should effectively enhance the awareness of the overall situation and responsibility, correctly grasp the relationship between the current and long-term, upstream and downstream, and ensure the safety and stability of the industrial chain and supply chain; it is necessary to strengthen industry self-discipline, further standardize the production and operation of enterprises, product trading and trade circulation, and not participate in market speculation and hoarding; it is necessary to give full play to the leading role of demonstration, promote and improve the pricing mechanism of rare earth products, jointly guide product prices to return to rationality, and promote the sustainable and healthy development of the rare earth industry.

(miit.gov.cn via Google translate)