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RAINBOW RARE EARTHS UNIQUE INVESTMENT OPPORTUNITY



PHALABORWA BASE CASE¹

NPV₁₀ US\$627m

IRR **40**%

EBITDA US\$195m

Margin² 75%

Payback <2 years



STRATEGIC ASSET: Near-term rare earths production from a secondary source



DE-RISKED: PEA demonstrates strong returns in all pricing scenarios and low capital intensity (US\$295.5m)



INNOVATIVE TECHNOLOGY: Unique IP developed through partnership with K-Tech, applicable at other phosphogypsum opportunities



PATHWAY TO SUPPLY GROWING DEMAND: Project pipeline of global opportunities



EXPERIENCED TEAM: Proven history of delivery

^{1.} All figures based on base case using US\$110/kg Nd; US\$112.50/kg Pr; US\$340/kg Dy; US\$1,875/kg Tb

^{2.} EBITDA operating margin

STRONG LEADERSHIP TEAM





EXPERIENCED MANAGEMENT AND TECHNICAL TEAM

- CEO, George Bennett, and Technical Director, Dave Dodd, established MDM Engineering; delivered
 - ->100 feasibility studies
 - ->80 mine developments
- Technical team strengthened to include Chris Le Roux and Roux Wildenboer; extensive experience in rare earth processing and project development
- Chairman, Adonis Pouroulis, is a mining entrepreneur;
 extensive experience across Africa and a long-term strategic
 vision for growth
- CFO, Pete Gardner is a Chartered Accountant with 20 years in the mining sector covering both development and producing assets



RARE EARTH ELEMENTS ESSENTIAL FOR GLOBAL DECARBONISATION



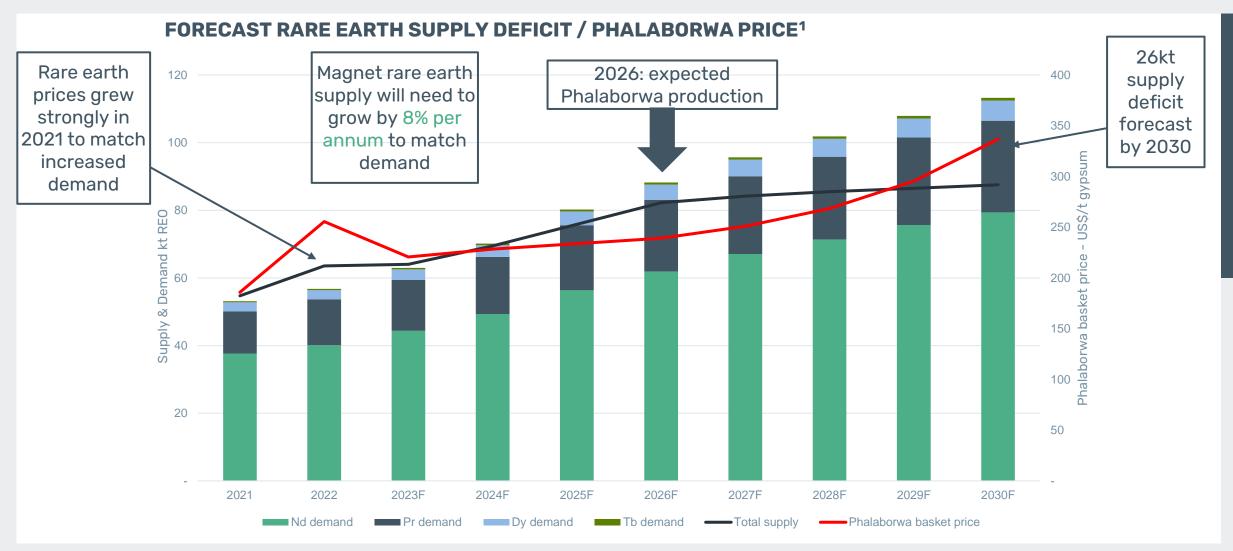
CRITICAL BUILDING BLOCKS TO REACH NET ZERO

- Rare earths (RE) are a group of 17 elements
- Essential in permanent magnets for EVs and wind turbines, Neodymium (Nd) and Praseodymium (Pr), with Dysprosium (Dy) and Terbium (Tb) are economically important:
- Account for 95% of global RE consumption¹
- RE permanent magnets are the most powerful permanent magnets
- -These magnets contain c. 30% RE elements by mass
- Demand is forecast to grow strongly, driven by increased adoption of EVs and offshore wind power generation, accelerated by evolving global emissions legislation and government policy including commitments from COP27



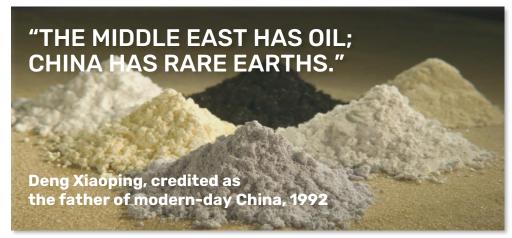
LONG TERM SUPPLY DEFICIT EXPECTED FOR RARE EARTHS DRIVING STRENGTHENING RARE EARTH PRICES





CREATING A RESPONSIBLE, WESTERN, INDEPENDENT SUPPLY CHAIN URGENCY MOUNTING TO MEET GROWING DEMAND

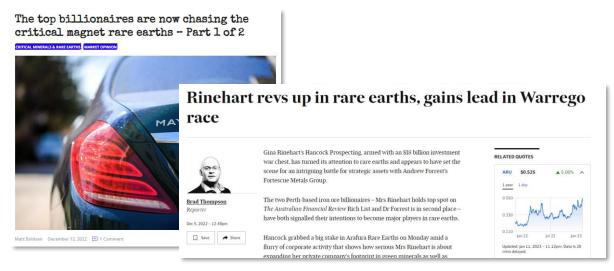




- Rare earths production, separation and refinery is dominated by China – 90% market share of refining market¹
- With projected demand escalation and supply chain concerns, REEs have been designated as critical metals by many Western governments promoting a drive toward raw materials security
- REEs are critical in defence industry American F-35 fighter jet contains c. 420kg rare earths

SUPPLY DEFICIT IS LIKELY DUE TO TRADITIONAL RARE EARTHS MINING CHALLENGES:

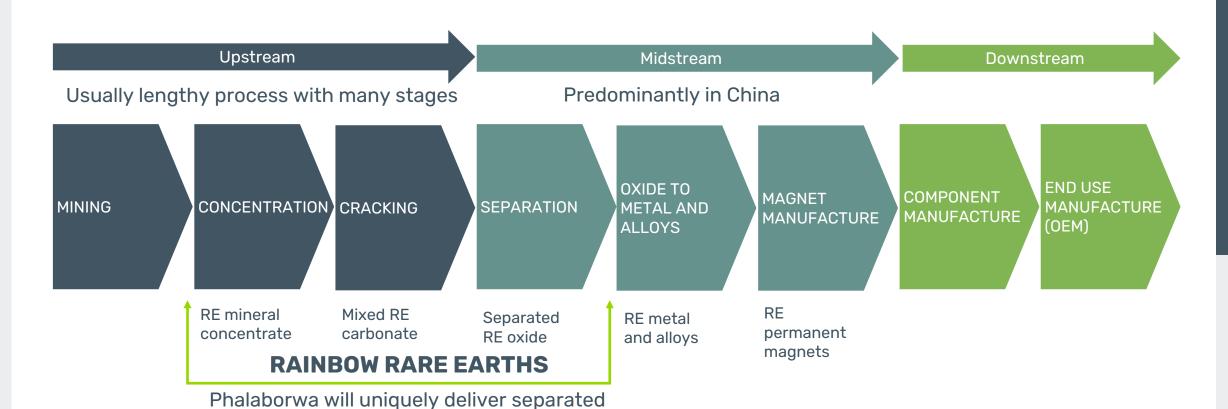
- Many development projects have complex challenges to overcome including low grades, high levels of radioactivity and environmental complications
- High capex associated with complex processing
- Long lead time for mines to be brought into operation



RAINBOW'S POSITION IN THE RARE EARTH MAGNET SUPPLY CHAIN UNDELINES PHALABORWA'S UNIQUE ADVANTAGE

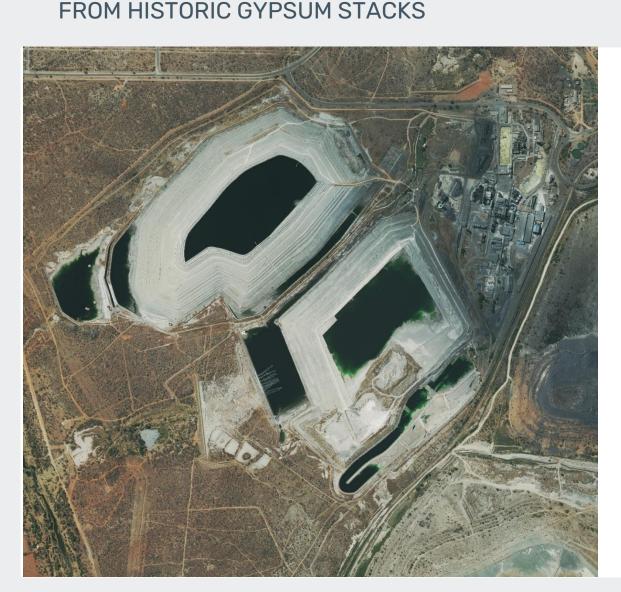
rare earth oxides from a single hydrometallurgical process plant on site in South Africa





PHALABORWA: EXCITING, NEAR-TERM GROWTH OPPORTUNITY DELIVERY OF SEPARATED MAGNET RARE EARTH OXIDES ON SINGLE SITE





RAINBOW IS EARNING A 70% INTEREST IN PHALABORWA

- Project is largely permitted and positioned in an established mining town, with:
- -associated skilled labour availability
- supporting industry (i.e., local production of sulphuric acid, a key reagent in the processing circuit)
- existing infrastructure
- Low capital intensity: capex of US\$295.5 MILLION significantly below that of a traditional hard rock rare earth mining project
- Low levels of radioactive elements: typical rare earth projects require complex processing to remove these

Basket price² US\$/kg 33.86 US\$/kg 175.89

Operating cost per kg product

Numbers based on 2022 YTD average rare earth prices at time of publication of PEA in October 2022

RESPONSIBLE PRODUCTION OF RARE EARTHS

INTEGRATING STRONG ENVIRONMENTAL AND SOCIAL PRACTICES IN PHALABORWA'S DEVELOPMENT



FOUNDED ON THE PRINCIPLES OF CIRCULARITY: RECOVERING RARE **EARTHS FROM SECONDARY SOURCE**

BROWNFIELD

- Phalaborwa is on an industrial site with legacy environmental issues
- Majority of environmental permits are in place and only require updating



REHABILITATION

- · Rainbow will clean up legacy issues:
- Neutralising acidic solution
- Redepositing benign gypsum on lined stacks in accordance with IFC standards / Equator **Principles**



RECYCLING

- All process water needs will be met by neutralised water in ponds
- Certain key reagents¹ recovered from upfront leach process for use downstream
- Sulphuric acid from nearby plant waste stream



RENEWABLE

 Exploring renewable energy options at Phalaborwa, including solar

CREATING SOCIAL VALUE



COMMUNITY

- Different social context from a greenfield project in a remote location
- Transparent payment of taxes
- Commitment to prioritise local supply chain



CLOSED-LOOP

- No water abstraction required for processing
- No discharge to the external environment

23

REUSE

- Existing infrastructure can be repurposed and reused
- Potential for use of reclaimed. clean phosphogypsum in building and industrial sectors

PEOPLE

- Zero harm
- Phalaborwa expected to provide c. 275-300 direct jobs
- Commitment to prioritise local employment

STRONG PROGRESS TO DATE

DE-RISKS PHALABORWA PROJECT; UNLOCKS VALUE



Q4 2022

Q12023

TEAM STRENGTHENED PEA PUBLISHED RESOURCE UPDATE

PILOT PLANT PERMITTING UPDATED

DEFINITIVE FEASIBILITY STUDY

PRODUCTION EXPECTED 2026¹

STRONG PROGRESS

- PEA publication Phalaborwa expected to be lowest cost global producer of separated magnet rare earth oxides
- Technical team additions
 - unparalleled rare earths knowledge
 - technical expertise and relevant experience in uranium which is transferable to CIX technology at Phalaborwa

NEXT STEPS SUPPORTED BY POSITIVE PEA

- Phalaborwa resource update expected Q1 2023
- Commencing workstreams to deliver:
 - continuous pilot plant operation
- feasibility study
- Ongoing development of project pipeline across multiple jurisdictions

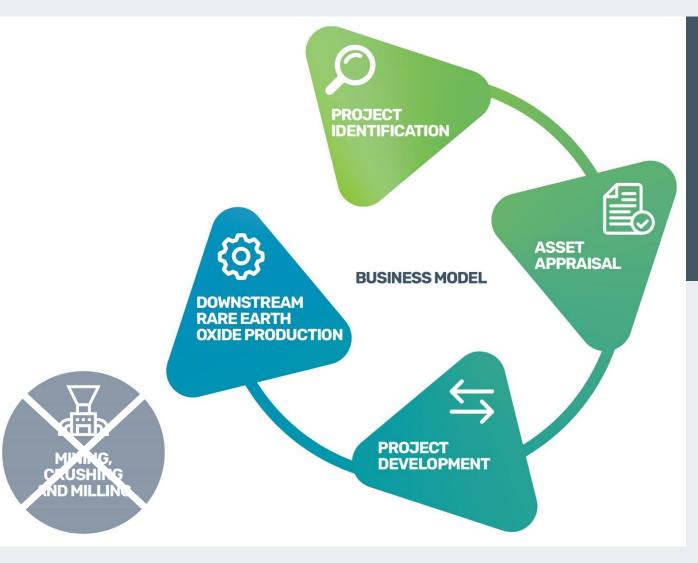
1. Subject to necessary permits

RAINBOW'S BUSINESS MODEL DELIVERING NEAR-TERM RARE EARTHS PRODUCTION



LEVERAGING IP AND PORTFOLIO FOR LONG TERM GROWTH

- Strategic focus on recovering rare earth oxides from secondary sources to support global decarbonisation
- IP and expertise in recovering rare earths from phosphogypsum unlocking additional opportunities:
- Signed master agreement with OCP –
 Moroccan world-leading producer of phosphate products – and UM6P
 University on rare earths extraction from phosphogypsum
- MoU with major chemicals company in SA to extract rare earths from nitro phosphate process stream
- Investigating further global opportunities



RAINBOW RARE EARTHS UNIQUELY POSITIONED IN A GROWING MARKET





WHY RAINBOW?



DRIVING VALUE FROM STRATEGIC SECONDARY SOURCES OF RARE EARTHS



Based on the long-term price forecasts received from Argus, with the first year of production assumed to occur in 2026 and prices assumed to remain constant from 2031 to the end of the project life

^{2.} EBITDA operating margin

RAINBOW RARE EARTHS

THANK YOU

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EXPERIENCED BOARD AND EXECUTIVE MANAGEMENT





ADONIS POUROULIS NON-EXECUTIVE CHAIRMAN

- Mining engineer: an entrepreneur whose expertise lies in the discovery, exploration and development of natural resources across Africa including diamonds, precious/base metals, coal and oil and gas.
- Founder of Rainbow and Petra Diamonds (LSE:PDL); Founder and Director of Chariot Oil & Gas (AIM:CHAR) and Founder of Pella Resources Limited



SHAWN MCCORMICK

NON-EXECUTIVE DIRECTOR

- · International affairs specialist
- Over 25 years of political and extractive industries sector experience having served in The White House as Director for African Affairs on the National Security Council (Washington)
- Previously Political Affairs Director of BP (London) and VP of TNK-BP (Moscow)



ALEXANDER LOWRIE

NON-EXECUTIVE DIRECTOR

- Investment banker with 13 years' experience and previous director roles at Deutsche Bank and RBS
- Co-founder of Telemark Capital LLP
- Significant market experience: IPOs and primary and secondary equity offerings



J PETER PHAM

NON-EXECUTIVE DIRECTOR

- Scholar and practitioner of International Affairs; >20 years of experience in Africa
- First-ever United States Special Envoy for the Sahel Region until 2021 with the personal rank of Ambassador; previously as US Special Envoy for Great Lakes Region
- · Distinguished Fellow at the Atlantic Council
- Member of the Board of the Smithsonian National Museum of African Art in Washington, DC, as well as Non-Executive Director of Africell Global Holdings



ATUL BALI

NON-EXECUTIVE DIRECTOR

- Corporate CEO and board member with extensive experience in tech, government contracting and regulated industries; Chartered Accountant
- Currently advisor to several high-growth technology companies, Chairman of the Football Pools and non-executive director of Everi Holdings Inc (NYSE:EVRI)
- Previously held divisional CEO or President positions with IGT (NYSE), Aristocrat (ASX), and Real Networks (NASDAQ), as well as a venture capital firm



GEORGE BENNETT

CEO

- 25 years in finance and management, including as partner in stockbroking/advisory firms in SA
- Former CEO of Shanta Gold Ltd, successfully listed on LSE in 2005
- CEO and Founder of MDM Engineering, listed on LSE in 2008; responsible for building 22 process plants and completing over 80 feasibility studies. Sold after 8 years to Foster Wheeler for US\$120 million
- · Seed-funded and raised initial capital for OreCorp Ltd as non-executive director, now ASX listed



PETER GARDNER

CHIEF FINANCIAL OFFICER

- Qualified Chartered Accountant; 15 years' experience in mining industry leading finance teams across Africa/developing nations
- Former CFO of Amara Mining plc (up to acquisition by Perseus Mining Ltd), Chaarat Gold, Piran Resources and Alexander Mining



DAVE DODD

TECHNICAL DIRECTOR

- 45 years of extractive metallurgy experience
- Metallurgical Project Consultant
- BSc (Hons) Chemical Engineering (1974)
- Fellow of Southern Africa Institute of Mining & Metallurgy



CHARLES GRAHAM

PROJECT MANAGER - PHALABORWA

- Mechanical Engineer
- 20 years' experience in project management delivering multidisciplinary mining and infrastructure projects in remote and logistically challenging geographical regions
- Successful completion of multiple feasibility studies across Africa
- Proven track record of increasing project value by reducing capital and operating costs during project life cycle from study to execution



CHRISTOPHER ATWOOD

PROJECT MANAGER - GAKARA

- 25 years' experience in mining and extractive industries.
- Track record of driving expansion and minimising costs
- Associated with startup ventures in remote locations.
- Led operations up to 35Mtpa successfully

KEY SHAREHOLDER INFORMATION

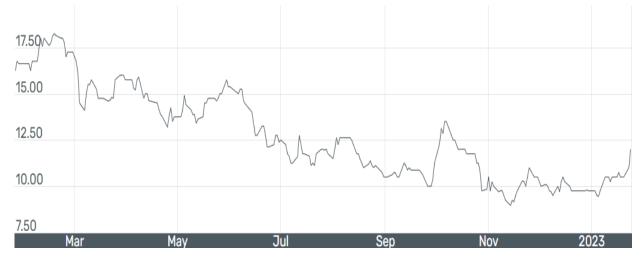


BOARD SHAREHOLDINGS AND MAJOR SHAREHOLDERS (>3%)

| Shareholder | Holding |
|-------------------------------|---------|
| Adonis Pouroulis | 14.5% |
| George Bennett | 6.8% |
| Robert Kampf | 5.5% |
| Praesidium Capital Management | 3.7% |
| TechMet Ireland Ltd | 3.5% |
| UBS AG Zurich | 2.8% |
| Shawn McCormick | 1.8% |
| Alexander Lowrie | 1.2% |
| Atul Bali | 0.7% |
| J Peter Pham | 0.05% |
| Total Board shareholding | 25.0% |

| Ticker | Market | Market cap | Share price | Shares in issue | Brokers |
|--------|--------|---------------|-------------|-----------------|-----------------------|
| RBW.L | LSE | £70m | 13p | 526m | SP ANGEL BERENBERG |

SHARE PRICE (GBP)



RAINBOW RARE EARTHS

A STRATEGIC SOURCE OF RARE EARTHS FOR A GROWING MARKET



DRIVING VALUE THROUGH STRONG PORTFOLIO UNDERPINNED BY UNIQUE INTELLECTUAL PROPERTY

- Flagship asset at Phalaborwa, South Africa:
- -PEA substantially de-risks project
- Exceptionally strong economics in all foreseeable pricing scenarios
- High margins leading to strong returns in inflationary environment
- Unique rare earths separation IP
- Unlocking further global opportunities
- Gakara project, Burundi: large mineralised system high-grade rare earth concentrate



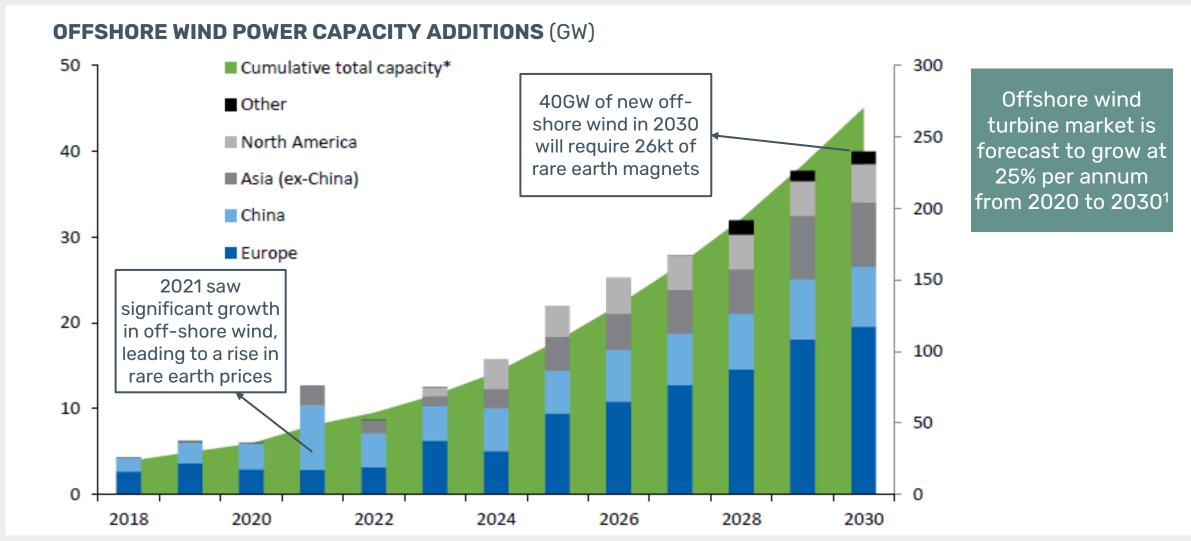


2. EBITDA operating margin

ACCELERATING GLOBAL DEMAND FOR RARE EARTHS



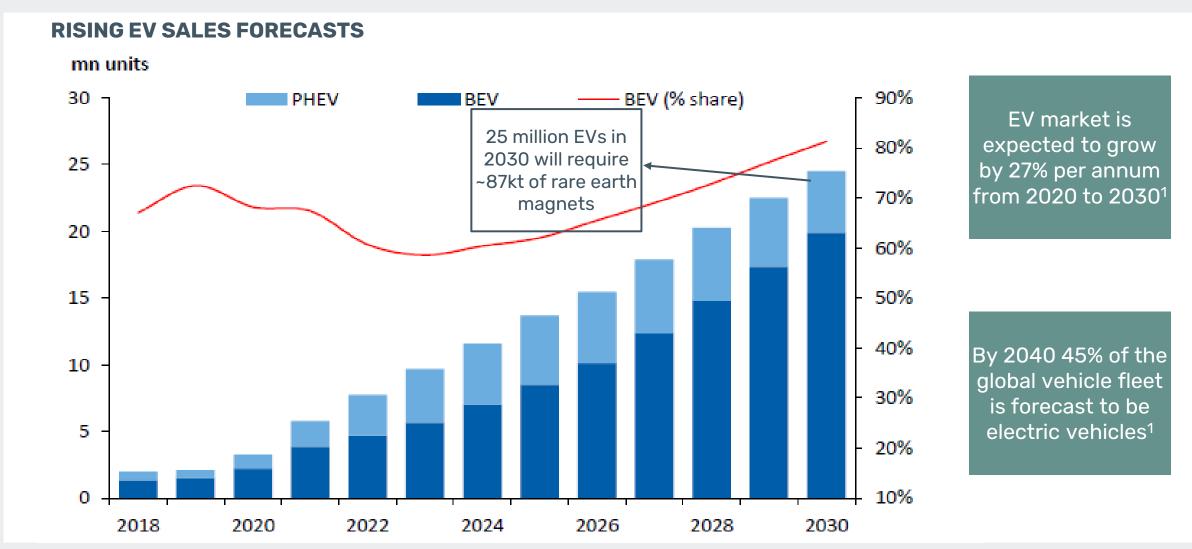
A 3MW OFFSHORE WIND TURBINE REQUIRES ~2T OF PERMANENT MAGNETS1



ACCELERATING GLOBAL DEMAND FOR RARE EARTHS



THE AVERAGE HYBRID OR EV USES 2-5KG OF RARE EARTH MAGNETS¹



PHALABORWA PRELIMINARY ECONOMIC ASSESSMENT



EXPECTED TO BE THE LOWEST COST PRODUCER OF SEPARATED MAGNET RARE EARTH OXIDES

STRONG ECONOMIC RETURNS FROM PEA

- October 2022 PEA demonstrated the low-cost nature of the Phalaborwa development
- Base case model delivers robust economic returns with significant upside seen using YTD magnet rare earth prices
- US\$260m/annum revenue from sale of 1,870t/annum separated magnet rare earth during steady state production for base case price assumptions – rises to US\$330m/annum using 2022 YTD average prices
- Average operating costs of US\$33.86/kg separated magnet rare earth oxides expected to be the lowest of all Western rare earth projects
- US\$195m/annum EBITDA during steady state production for base case price assumptions – rises to US\$266m/annum using 2022 YTD average prices
- Capex of US\$295.5 million significantly below that of a traditional hard rock rare earth mining project

BASE CASE¹

NPV₁₀3 US\$627m

IRR **40**%

Margin⁴ 75%

Payback

2 years

YTD AVERAGE PRICES²

NPV₁₀ US\$934m

> RR **51**%

Margin 81%

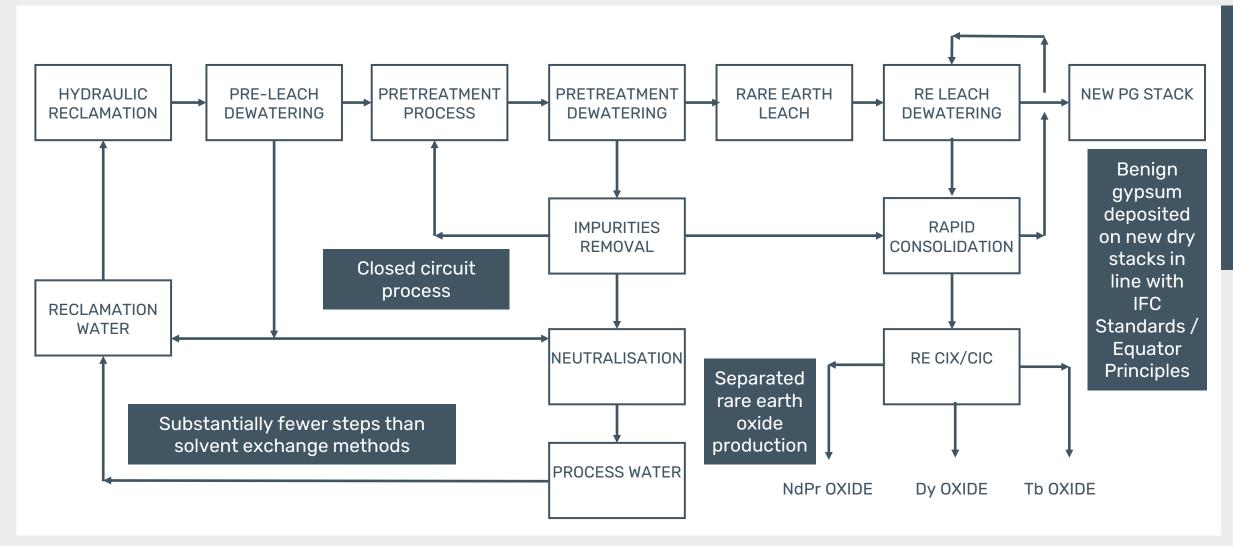
Payback

1.7 years

- 1. The base case uses US\$110/kg Nd; US\$112.50/kg Pr; US\$340/kg Dy; US\$1,875/kg Tb
- Prices derived from weekly data collated by Rainbow from price reporting agencies up to 23 September 2022: US\$146.36/kg Nd; US\$140.25/kg Pr; US\$403.70/kg Dy; US\$2,117.56/kg Tb
- 3. Net present value using a 10% forward discount rate
- EBITDA operating margin

PHALABORWA BLOCK FLOW DIAGRAM UNIQUE PROCESS DEVELOPED BY RAINBOW AND K-TECH





PHALBAORWA RESOURCE CONFIRMS HIGH VALUE PROJECT



MUCH HIGHER GRADE THAN TYPICAL IONIC CLAY RARE EARTH PROJECTS WITH LOW LEVELS OF RADIOACTIVITY

| Project | Style | Owner | TREO ³ % | NdPr ⁴ ppm | In-situ REO US\$/t¹ | U ⁵ ppm | Th ⁶ ppm |
|---------------------------|---------------|------------------------|------------------------|--------------------------|---------------------------|--------------------|---------------------|
| Phalaborwa ¹ | Gypsum stacks | Rainbow Rare Earths | 0.431% | 1,257 | 181 | 2 | 48 |
| La Paz ² | Ionic Clay | American rare Earths | 0.04% | 80 | 45 | 1 | 7 |
| Round Top ² | Ionic Clay | US Rare Earths/TMRC | 0.063% | 39 | 35 | 45 | 179 |
| Makuutu ² | Ionic Clay | Ionic Rare Earths | 0.08% | 232 | 14 | 10 | 30 |
| Mount Weld ² | Hard rock | Lynas Rare Earths | 8.20% | 18,833 | 2,348 | 30 | 750 |
| Ngualla ² | Hard rock | Peak Resources | 4.80% | 10,210 | 1,180 | 18 | 61 |
| Yangibana ² | Hard rock | Hastings Tech. Metals | 1.17% | 4,000 | 1,010 | 300 | 600 |
| Bear Lodge ² | Hard rock | Rare Element Resources | 3.08% | 7,059 | 893 | 113 | 472 |
| Nolan's Bore ² | Hard rock | Arafura Resources | 2.60% | 6,859 | 824 | 191 | 2,700 |
| Nechalacho ² | Hard rock | Vital Metals | 1.46% | 3,690 | 794 | 28 | 139 |
| Longonjo ² | Hard rock | Pensana plc | 1.43% | 3,170 | 415 | 29 | 967 |
| Songwe Hill ² | Hard rock | Mkango Resources | 1.41% | 2,880 | 403 | 15 | 386 |
| Norra Karr ² | Hard rock | Leading Edge Materials | 0.50% | 701 | 228 | 8 | 16 |

Value of magnet rare earth metals/t ore based on US\$110/kg Nd; US\$112.50/kg Pr, US\$340/kg Dy, US\$1,875/kg Tb

^{2.} Based on public disclosure from owner 3. TRE0 includes Y₂O₃

Nd₂O₃ and Pr₆O₁₁

^{5.} U₃O₈ 6. ThO₂

GAKARA: HIGH-GRADE RARE EARTH MINERAL CONCENTRATE FROM LARGE MINERALISED SYSTEM IN BURUNDI



- 39km² mining permit hosting large scale mineralised system
- Exploration target provides opportunity for 262,000 375,000t of high-grade vein hosted mineralisation grading 7.0% – 12.0% TREO plus 252,000 – 342,000t of breccia hosted mineralisation grading 1.0% – 1.5% TREO
- Trial mining and processing since 2017 has demonstrated amenability for simple, low-cost gravity separation from ore
- Trial mining has progressed from small-scale manual focused operations pre 2020 to bulk mechanical waste mining and selective mechanical ore mining to deliver an average mine feed grading 13.5% TREO between September 2020 and March 2021
- High value rare earth concentrate (52-56% TREO) with low levels of radioactive elements weighted towards magnet rare earths: NdPr represent ~90% of value (19.5% of mass)
- Expanded mining fleet and de-bottle necking of process plant in 2020-21 delivered growing production profile until operation placed on care and maintenance in June 2021 at request of Burundi Government
- We continue to engage with the Government to renegotiate terms of the Mining Convention and to restart operations

PRE-2020



LATEST OPERATIONS

