

Stock Data

Share Price:	2.85p
Market Cap:	£10.8m
Shares in issue:	380m

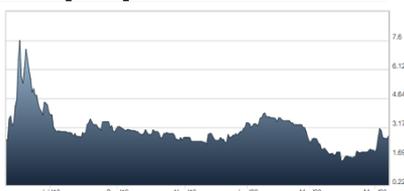
Company Profile

Sector:	Mining
Ticker:	RBW
Exchange:	LSE

Activities

Rainbow Rare Earths Limited ('RBW', 'Rainbow', 'the Company') is principally focused on its the Gakara Project in Burundi, one of the highest-grade (47%-67% Total Rare Earth Oxide ("TREO")) rare earths projects globally and the only African producer. First production and sales to Rainbow's offtake partner, thyssenkrupp Materials Trading, commenced in Q4 2017.

Share price performance



Source: [LSE](#)

Past performance is not an indication of future performance.

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Rainbow Rare Earths Limited

Rainbow has provided an exploration update for its Gakara Project in Burundi ('Gakara'). In March and April 2020, a structural and lithological review that involved the reinterpretation of high-resolution geophysical data was undertaken by TECT Geological Consulting. This confirmed the presence of three large carbonatite bodies at Gakara, which represent the regional source of rare earth elements ('REE'). Moreover, a detailed understanding of the structural controls that gave rise to the mineralisation is a key element within the creation of the Company's 3D mineralisation models alongside the existing mining and drilling data and will allow its initial JORC resource base to better reflect potential and drive future exploration activities in the correctly targeted manner.

Converting exploration targets into mineral resources

The review combined the structural information with the comprehensive mapping database accumulated by Rainbow over several years as well as the geological knowledge derived from PhD research completed in December 2019 to define a data-driven, objective appraisal of sites where REE mineralisation, in the form of vein stockworks and/or breccias, is likely to have been more intensely developed. This work has defined a total of 57 exploration targets. Review outcome as follows:

- Results of a structural and lithological review of Gakara have confirmed the highest priority areas for the ongoing exploration programme
- Structural review and other historical mining and exploration data are being incorporated into 3D models of mineral resources and exploration targets in compliance with the standards defined in the JORC Code (2012 edition) to develop a wider understanding of the mineralised system
- Trial mining and processing continues to demonstrate that high Total Rare Earth Oxide ("TREO") grade ore sourced from across the licence area has similar metallurgical and mineralogical characteristics

In parallel with the structural review and targeting, Rainbow has been reviewing the historical mining and exploration data to ensure that the full historical knowledge of the Gakara project is included in the next phase of exploration planning. The combination of historical data, recent structural analysis and upcoming 3D mineralisation models will be used to refine the targets for ongoing exploration and trial mining with a view to converting exploration targets into mineral resources.

Rainbow continues to operate trial mining and processing activities, demonstrating that the ore from veins found across the licence area is amenable to simple processing via gravity separation to produce a high-grade concentrate (averaging 52-58% TREO) suitable for direct shipping with minimal radioactive elements.

Rare REE producer outside of China

As Africa's only REE producer, Rainbow has been producing concentrate from its 90% owned Gakara project in Burundi since Q4 2017. The Gakara deposit is one of the highest-grade REE deposits in the world with in-situ grades ranging between 47% and 67% TREO. The deposit consists of REE-bearing minerals bastnaesite and monazite hosted within a system of narrow veins. The Company also has a ten-year distribution and offtake agreement with multinational thyssenKrupp Materials Trading secured for the sale of at least 5,000tpa of concentrate. Significantly, the Gakara basket is weighted heavily towards the magnet rare earths, including neodymium and praseodymium, which are driving demand and account for 70% of annual global REE sales due to their use in vital components in motors, generators, wind turbines, and electric vehicles.

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