ionic
rare earths

ASX Announcement

30 July 2025

IONIC TECHNOLOGIES RAMPING UP HEAVY RARE EARTH PRODUCTION TO MEET SUPPLY REQUESTS FROM MAJORS

Dysprosium, terbium oxide being produced at Belfast plant in response to urgent supply requests from US / Europe / Asia

- **IonicRE wholly owned subsidiary, Ionic Technologies ramping up production of critical heavy rare earths, dysprosium oxide (Dy_2O_3) and terbium oxide (Tb_4O_7), at Belfast plant in response to urgent supply requests from US, European and Asian market;**
- **Move follows successful 24/7 production since January 2024 of high purity, separated rare earth oxides, programs delivered to key initiatives and supply chain partners;**
- **Samples sent to Western customers in response to customer inquiries, amid tripling of prices during Q2 2025 on constrained supply;**
- **Strategic shift enables increased sales of heavy rare earths critical to defence, advanced manufacturing and renewables.**

Ionic Rare Earths Limited ("IonicRE" or the "Company") (ASX: IXR) wholly owned subsidiary Ionic Technologies is increasing production of high-purity oxides of dysprosium (Dy_2O_3) and terbium (Tb_4O_7) at its Belfast plant, responding to the critical need for these heavy rare earths used in the manufacture of high-performance sintered neodymium-iron-boron (NdFeB) permanent magnets for the defence, advanced manufacturing and renewables sectors for Western customers.

The increased production of these heavy rare earth oxides (HREOs) follows growing requests for these materials from the US, UK, Europe and globally, with samples sent to various Western customers. China's April 2025 announcement of additional export restrictions on medium and heavy rare earths, including Dy and Tb, has resulted in a substantial increase of inbound requests for additional or excess Dy or Tb capacity available from Ionic Technologies.

Exports of Dy and Tb from China were at historic lows in June, following a complete halt in May, according to Chinese customs data. Just 1 kilogram of Dy and 1,200 kilograms of Tb were exported from China in June, both to South Korea, with no shipments to any other countries.

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The Belfast plant is a key component of IonicRE's vertically integrated rare earth supply chain and will leverage its advanced processing capabilities to produce Dy_2O_3 and Tb_4O_7 to stringent industry specifications. This focus is expected to position IonicRE as a leading supplier of these critical materials, fostering an ex-China rare earth supply chain.

IonicRE Managing Director, Mr Tim Harrison commented: *"Ionic Technologies' Demonstration Plant has shown its ability to produce high purity REOs from end-of-life permanent magnets or production swarf since January 2024, successfully operating on a 24/7 basis, and delivering REOs to our supply chain partners.*

"Since the recent April rare earth export controls announced by China, we have been flooded with enquiries from automakers, and other manufacturers for heavy rare earths, due to the critical Western shortage of these highly strategic materials. This has been highlighted by a tripling of prices for both Dy_2O_3 and Tb_4O_7 over the past three months.

"Ionic Technologies is uniquely placed with its made-in-Belfast technology to deliver these HREOs in a short time span and we have now moved to the next step of producing increased quantities of revenue-producing HREOs and monetising available products."

IonicRE Executive Chairman, Mr Brett Lynch said: *"The rare earths market is at a critical turning point, with prices now soaring for rare earths, particularly these critical HREOs, with demand surging but supply constrained due to China's trade restrictions.*

"We have the necessary technology, inventory and extra capacity available to service the Western HREO market, cementing our position as the leading UK supplier of secure, sustainable and traceable magnet and heavy rare earths."

He added: "IonicRE is rapidly building a global rare earth recycling industrial business. We are taking small steps but even more quickly towards commercialisation, demonstrating our proactive approach to improving shareholder returns as we work towards delivery of the Belfast commercial plant."

The Company is continuing to engage with various groups including leading US, European and Asian manufacturers for the supply of HREEs. IonicRE will update the market as these talks progress into commercial agreements.

IonicRE's latest move follows its recent announcement of UK Government backing, with Ionic Technologies leading the £11 million "CirculaREEconomy" project, commencing from 1 August 2025, which necessitates the production of high purity, separated rare earth oxides (REOs) from its Demonstration Plant in Belfast, UK (refer ASX release 14 July 2025).

Ionic Technologies has shown the potential of its made-in-Belfast patented technology to enhance the sustainability of the rare earth supply chain, with a peer-reviewed Product Carbon Footprint Study showing emission reductions of up to 61% compared to the existing REO supply chain sourced from primary (mine) supply (refer ASX release 13 March 2025).

Ionic Technologies' Belfast plant was the first producer of recycled, individually separated magnet REOs in the Western world, with the Company now moving rapidly to commercialise rare earth separation, refining, and recycling.

For more information about IonicRE and its operations, please visit www.ionicre.com.

Authorised for release by the Board.

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About Ionic Rare Earths Ltd

Ionic Rare Earths Limited (ASX: IXR or IonicRE) is an emerging miner, refiner and recycler of sustainable and traceable magnet and heavy rare earths needed to develop net-zero carbon technologies.

Ionic Technologies International Limited ("Ionic Technologies"), a 100% owned UK subsidiary, has developed processes for the separation and recovery of rare earth elements (REE) from mining ore concentrates and recycled permanent magnets. Ionic Technologies is focusing on the commercialisation of the technology to achieve near complete extraction from end-of-life / spent magnets and waste (swarf) to high value, separated and traceable magnet rare earth products with grades exceeding 99.5% rare earth oxide (REO).

The Makuutu Rare Earths Project in Uganda, 60% owned by IonicRE, is well-supported by existing tier-one infrastructure and is on track to become a long-life, low Capex, scalable and sustainable supplier of high-value magnet and heavy REO.

IonicRE has also executed a transformational 50/50 joint venture refinery and magnet recycling facility in Brazil with Viridis Mining and Minerals Limited (ASX: VMM) to separate high value magnet and heavy rare earths from the Colossus Project's full spectrum of REOs.

This integrated strategy completes the circular economy of sustainable and traceable magnet and heavy rare earth products needed to supply applications critical to EVs, offshore wind turbines, communication, and key defence initiatives.

For more information about IonicRE and its operations, please visit www.ionicre.com.

Forward Looking Statements

This announcement has been prepared by Ionic Rare Earths Limited and may include forward-looking statements. Forward-looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of Ionic Rare Earths Limited. Actual values, results or events may be materially different to those expressed or implied in this document. Given these uncertainties, recipients are cautioned not to place reliance on forward looking statements. Any forward-looking statements in this document speak only at the date of issue of this document. Subject to any continuing obligations under

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References to Previous ASX Releases

- *Ionic Technologies secures UK Government backing with £11 million 'CirculaREEconomy' partnership – 14 July 2025*
- *IXR eyeing multiple magnet recycling plants in USA – 23 June 2025*
- *Viridion JV plans expansion into USA with REE refinery – 18 June 2025*
- *Viridion JV selected for Brazilian government REE funding – 13 June 2025*
- *Viridion JV delivers first magnet REOs to Brazil – 27 May 2025*
- *IonicRE inks MOU with EMR to create game-changing circular supply chain for rare earth magnets – 26 May 2025*
- *Peer review confirms up to 61% lower CO_2 emissions from Ionic Technologies' magnet recycling process – 13 March 2025*
- *Magnet recycling life cycle assessment indicates revolutionary 30-50% lower CO_2 footprint compared with existing global primary REO producers – 18 February 2025*
- *IonicRE signs MOU with Korea's DNA Link to spur international expansion – 13 February 2025*
- *LCA to show Ionic Technologies CO_2 footprint benefit – 5 February 2025*
- *UK government grant application lodged for magnet recycling plant – 5 December 2024*
- *Feasibility Study demonstrates profitable magnet REO business case – 18 November 2024*
- *Ionic Technologies secures UK funding for recycled rare earth permanent magnets partnership – 1 October 2024*
- *IXR and LCM advance rare earth supply chain collaboration – 27 May 2024*

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and all material assumptions and technical parameters continue to apply and have not materially changed.