

10 November 2025



IXR INKS MOU WITH US STRATEGIC METALS FOR MISSOURI MAGNET RECYCLING

- **IonicRE signs Memorandum of Understanding (MOU) with Missouri-based US Strategic Metals (USSM) at Australian Embassy in Washington, D.C., supporting the U.S.-Australia critical minerals partnership;**
- **Collaboration includes development of vertically integrated, multi-metallic rare earths production from recycling at USSM's 1,800 acre (728.4 hectare) fully permitted site in Missouri, USA;**
- **IonicRE to provide Ionic Technologies' patented rare earth permanent magnet recycling technology, focused on rapid production of magnet rare earth oxides (REOs), with future potential expansion to include a range of magnet and heavy rare earths from mixed rare earth carbonate (MREC); and**
- **Both companies to pursue opportunities for strategic funding, technology development and supply chain collaboration consistent with U.S.-Australia critical minerals cooperation framework, as IonicRE continues its global magnet recycling expansion to develop secure and sustainable ex-China rare earth supply chains.**

Ionic Rare Earths Limited ("IonicRE" or the "Company") (ASX: IXR) has signed a non-binding Memorandum of Understanding (MOU) with Missouri-based US Strategic Metals (USSM), a vertically integrated, multi-metallic critical minerals platform, at an official ceremony held at the Australian Embassy in Washington, D.C., highlighting the strong corporate commitment to supporting the U.S.-Australia critical minerals partnership.

Under the MOU, IonicRE and USSM will pursue opportunities to align rare earth and critical mineral production with multi-metallic downstream processing and supply chain development at USSM's 1,800 acre (728.4 hectare) fully permitted site in Missouri, USA, starting with the deployment of wholly owned subsidiary, Ionic Technologies' patented rare earth permanent magnet recycling technology, developing both commercial Neodymium-Iron-Boron (NdFeB) and Samarium-Cobalt (SmCo) recycling capacity.

The Missouri recycling facility is expected to produce significant quantities of NdPr (neodymium and praseodymium), and importantly a range of strategic heavy rare earths, presently included within the list of Chinese restricted rare earth elements, including dysprosium (Dy), terbium (Tb), samarium



(Sm), gadolinium (Gd) and holmium (Ho). In addition, the parties will evaluate other heavy rare earth recycling opportunities within the USA to be located at the USSM site in Missouri.

The MOU focuses on producing high purity, separated magnet rare earth oxides (REOs) rapidly in the United States, with future potential expansion to include a wide range of magnet and heavy rare earths from a range of strategically sourced mixed rare earth carbonate (MREC) from target project feeds.

The partnership supports the historic critical minerals framework signed on 21 October 2025 by US President Donald J. Trump and Australian Prime Minister Anthony Albanese (“The United States–Australia Framework for Securing of Supply in the Mining and Processing of Critical Minerals and Rare Earths”), aimed at delivering a U.S.-Australia secured supply chain for critical minerals and rare earths, required for defence, advanced manufacturing and renewables.

The MOU also supports the Trump Administration’s efforts to secure U.S. leadership in critical minerals and energy by expanding domestic critical mineral production. Consistent with Executive Order 14241, “Immediate Measures to Increase American Mineral Production,” the MOU fosters collaboration through the Quadrilateral Security Dialogue, a partnership among the United States, Australia, Japan, and India focused on promoting regional stability and economic security. Together, the capabilities of USSM and IonicRE aim to reduce dependence on foreign mineral imports, improve national security, and ensure supply chain resilience for industries vital to the U.S. defence and technology sectors.

Welcoming the agreement, IonicRE Managing Director, Mr Tim Harrison said: *“Magnet recycling is the fastest and lowest-cost pathway to developing an ex-China rare earth supply chain in the United States. IonicRE is leading this charge in this area, and we now look to replicate the capability we have demonstrated in the UK now in the USA to provide a key strategic supply of magnet and heavy rare earths into the USA supply chain.”*

“Now is the time to accelerate this technology, which we are capable of building globally to offer a resilient supply of high purity, separated REOs, delivered on a sustainable basis thanks to our proven low-emission technology.”

Stacy W. Hastie, Founder & CEO of USSM commented: *“This partnership aligns with our vision to be a key leader in the establishment of new supply chains for critical minerals and heavy rare earths.”*

“US Strategic Metals’ processing and refining capabilities in Missouri are designed to meet America’s demand while collaborating with partners dedicated to responsible, secure, and sustainable sourcing. Working with IonicRE, we intend to accelerate technological progress and financial collaborations that will shape the future framework of domestic critical mineral supply chains.”

IonicRE Executive Chairman, Mr Brett Lynch signed the MOU with USSM at the Australian Embassy in Washington, D.C.

“This MOU is an important step forward in building a secure and sustainable ex-China rare earths supply chain in the United States, the world’s biggest economy, also supporting the critical minerals framework recently agreed by both the Australian and U.S. governments,” Mr Lynch said.

“There’s no bigger market than the United States and we are delighted to partner with USSM in delivering rare earth permanent magnet supply in Missouri, with potential for multiple recycling plants across the United States as part of our global expansion.”



Figure 1: Ionic Rare Earths and US Strategic Metals signing ceremony at the Australian Embassy in Washington, D.C. Back row, representatives from the Australian and US Government, and front row, left to right, Mr Michael Holloman (USSM Chief Commercial Officer), Mr Brett Lynch (IonicRE Executive Chairman), Mr Stacy W. Hastie (USSM Founder & CEO) and Mr James Durrant (RareX Limited Managing Director).

The United States currently sources 70% of its rare earth imports from China, with the Trump administration ramping up efforts to expand U.S. domestic production of rare earths and other critical minerals to reduce its import dependence. By 2027, Chinese rare earth content must be completely removed from U.S. weapons systems under existing regulations.

Under the US-Australia framework agreement, both nations have agreed to provide at least US\$1 billion in investments towards an US\$8.5 billion pipeline of critical minerals projects in Australia and the United States over a six-month period. The agreement aims to assist both countries in “achieving resilience and security of critical minerals and rare earths supply chains, including mining, separation, and processing, through use of economic policy tools and coordinated investment” (refer

<https://www.pm.gov.au/media/historic-critical-minerals-framework-signed-president-trump-and-prime-minister-albanese>).

IonicRE has continued its international expansion across the UK/Europe, North and South America, amid a continuing global focus on securing heavy rare earths and the need for secure and sustainable ex-China supply.

The Company recently welcomed a \$3 million strategic investment from U.S.-based Argentem Creek Partners, a specialist investment firm with experience in critical minerals, energy transition plays, technology, and industrial sectors.

Ionic Technologies has shown the ability of its 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).

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

Authorised for release by the Board.

For enquiries, contact:

For Company

Tim Harrison

Ionic Rare Earths Limited

investors@ionicre.com

+61 (3) 9776 3434

For Investor Relations

Peter Taylor

NWR Communications

peter@nwrcommunications.com.au

+61 (0) 412 036 231

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.

About US Strategic Metals

USSM is a vertically integrated critical minerals platform with the objective of becoming the first major near-term domestic producer of critical minerals in the United States. The company's processing site in Missouri will produce important critical materials such as alloy grade cobalt, antimony sulfide, nickel metal, lithium carbonate, copper cathode, and rare earth elements.

USSM's unique capacity to process complex poly-metallic sulfides using well-known methods combined with in-house, novel, but not complex technology makes it a global market leader in reliable, ethically sourced, and environmentally friendly strategic metals for U.S. and global markets.

Anchored by its team of experienced professionals, substantial domestic resources, and with a culture of innovation, USSM is building its capacity to meet the growing needs of the defence and advanced technology industries by ensuring sustainable, domestic supplies of strategic metals.

For more information about USSM, please visit www.usstrategicmetals.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 applicable law and the ASX Listing Rules, Ionic Rare Earths Limited does not undertake any obligation to update or revise any information or any of the forward-looking statements in this document or any changes in events, conditions, or circumstances on which any such forward looking statement is based.

References to Previous ASX Releases

- *September Quarterly Activities & Cash Flow Report – 29 October 2025*
- *US strategic investment enhances IXR rights issue, placement – 14 October 2025*
- *Ionic Technologies ramping up heavy rare earth production to meet supply requests from majors – 30 July 2025*
- *IXR eyeing multiple magnet recycling plants in USA – 23 June 2025*
- *Peer review confirms up to 61% lower CO₂ emissions from Ionic Technologies' magnet recycling process – 13 March 2025*

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.