

# Rare Earth Recycling Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

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## Abstracts

The Rare Earth (RE) Recycling market is a burgeoning, high-growth sector focused on recovering critical Rare Earth Elements (REEs), primarily Neodymium (Nd), Praseodymium (Pr), Dysprosium (Dy), and Terbium (Tb), from end-of-life products and industrial waste streams. This industry is strategically vital as it offers a pathway to mitigate the extreme geopolitical and environmental risks associated with traditional REE mining and processing.

The market is characterized by:

**Strategic Necessity:** Recycling provides a non-extractive, urban mining source for REEs, directly addressing the supply chain concentration risk inherent in the conventional mining sector, where China holds dominant shares in reserves, mining (~70%), and refining (~90%).

**Focus on High-Value NdFeB:** The primary focus of RE recycling is the recovery of NdFeB permanent magnets, given their high REE content and widespread use in Electric Vehicles (EVs) and Wind Turbines. The high scrap rate (~30%) during NdFeB magnet production creates a significant, readily available industrial waste stream (~100,000 tons annually in China alone).

**Technological Diversity:** The industry employs various technologies, including Hydrometallurgy (acid-based separation), Pyrometallurgy (high-heat processing), Hydrogen Processing (HPMS), and innovative acid-free methods (ADR, Chromatography), to extract high-purity RE oxides from complex waste matrices like magnet scrap, swarf, and E-waste.

The global Rare Earth Recycling market is estimated to be valued in the range of 90-180 million USD in 2025. Given the strategic push for supply chain diversification and the increasing volume of end-of-life products (like EV motors), the market is projected to grow at a Compound Annual Growth Rate (CAGR) in the range of 6%-12% through 2030.

### Applications Driving Rare Earth Recycling Demand

The demand for recycled REEs is intrinsically linked to the end-use applications of NdFeB magnets, particularly sectors undergoing rapid electrification and digitalization. The primary applications contributing to the feedstock stream are:

#### Automotive:

**New Energy Vehicles (NEVs):** Drive motors are the largest long-term source of end-of-life magnets. The magnets used here often contain critical Heavy Rare Earths (Dy/Tb) for high-temperature stability, making their recovery particularly valuable.

**Traditional Vehicles:** RE magnets are widely used in auxiliary motors for EPS, starters, power windows, etc., contributing to the existing scrap pool.

#### Consumer Electronics & Household Goods:

**E-Waste Stream:** This is a key dilute feedstock source, including hard drives, VCM motors in Smartphones, speakers, and inverter AC compressors. Companies like REEcycle and Critical Materials Recycling Inc. (CMR using ADR process from shredded HDD) specifically target these streams.

**Renewable Energy (Wind Turbines):** While having a longer lifespan, large Permanent Magnet Synchronous Generators (PMSGs) are future sources of massive magnet quantities for recycling.

**Industrial & Robotics:** Industrial Servo Motors and future Humanoid Robotics

utilize high-performance RE magnets, creating a specialized recycling feedstock for industrial scrap.

**Aerospace & Defense & Medical:** These fields (Plane Motors, Guidance equipment, MRI scanners) use RE magnets that require specialized, high-security recycling loops.

### Regional Market Trends in Recycling

Recycling efforts are accelerating globally, driven by industrial waste volumes in APAC and strategic necessity in North America and Europe.

#### Asia-Pacific (APAC)

**Dominance in Industrial Scrap Recycling:** China's vast NdFeB magnet manufacturing base is the source of the majority of industrial magnet production waste (swarf, off-cuts). Chinese companies primarily focus on this high-concentration feedstock.

**Major Chinese Recyclers:** Zhongxi Tianma New Materials Technology Co. Ltd. is a large-scale enterprise with an annual processing capacity of 36,000 tons and 10,000 tpa RE oxide capacity. Jiangsu Huahong Technology Co. Ltd. has a 12,000 tpa regenerated RE oxide capacity and is building a project to process 60,000 tons of magnet scrap. Ganzhou Chenguang Rare Earths New Material Co. Ltd. (Shenghe Resources subsidiary) has a 10,000 tpa NdFeB scrap line.

**Japanese Pioneer:** Shin-Etsu has been recycling RE magnets in Japan since 2008 and in Vietnam since 2013 on industrial scale, integrating recycling into its existing separation circuits.

**Estimated CAGR:** In the range of 5%-8% through 2030, reflecting expansion in industrial scrap capacity and the emerging E-waste stream.

#### North America

**Technological Innovation Hub:** The US is a leader in developing advanced recycling technologies. ReElement Technologies Corporation

uses ligand-assisted chromatography for high-purity separation from various RE sources (magnets, batteries, coal byproducts) and operates a commercial-scale refining site in Indiana.

**New Magnet Production:** Vulcan Elements is planning a 10,000 tpa magnet factory by 2025, entirely decoupled from Chinese raw materials by utilizing recycled magnets and E-waste. HyProMag USA is building a 1,041 ton recycling and manufacturing facility in Dallas-Fort Worth using HPMS technology. Cyclic Materials opened a 500 metric tons per year recycling facility in Canada (June 2025).

**Estimated CAGR:** In the range of 10%-15% through 2030, driven by aggressive supply chain localization and government support for domestic RE oxide production.

## Europe

**Strategic Recycling and Refining:** Europe is focused on establishing integrated recycling and refining capacity to serve its major Automotive sector.

Caremag (Carester subsidiary) secured €216 million to build a recycling and refining facility in France (operational by late 2026). The Orano Group and CEA launched Europe's first RE magnet recycling pilot line in September 2025.

RockLink GmbH (German firm) is partnering with BatX Energies to establish India's first integrated RE magnet recycling and refining ecosystem.

**Estimated CAGR:** In the range of 9%-14% through 2030, reflecting rapid capacity addition driven by EU policy and automotive OEM demand.

## Latin America (LATAM) and MEA (Middle East & Africa)

These regions currently serve primarily as raw REE suppliers and emerging end-use markets. Recycling infrastructure development is nascent, focusing on waste management policies and initial pilot projects.

Estimated CAGR (Recycling Capacity): In the range of 3%-7% through 2030.

### Overview of Key Market Players and Technologies

The competitive landscape is defined by traditional integrated magnet producers who have added recycling and specialized technology developers focusing on clean and efficient separation.

#### Integrated Recyclers and Separation Experts:

**Shin-Etsu:** Leveraging its in-house light-and heavy rare earth separation circuits (hydrometallurgy using acids and solvents) to integrate recycled material production.

**ReElement Technologies Corporation:** Focuses on ligand-assisted chromatography to achieve high-purity RE oxide production from various RE sources (magnets, batteries, coal byproducts).

**Carester:** Through its subsidiary Caremag, it will combine recycled permanent magnets and mineral concentrates to produce RE oxides in France.

**Jiangsu Huahong Technology Co. Ltd. and Zhongxi Tianma New Materials Technology Co. Ltd.:** Chinese leaders in the high-volume recovery of RE oxides from NdFeB production waste using established hydrometallurgical processes. Ganzhou City Hengyuan Science And Technology Co. Ltd. is upgrading its capacity to process 10,565 tons of NdFeB scrap, targeting 3,300 tons of RE oxides by 2026.

**Ganzhou Chenguang Rare Earths New Material Co. Ltd. (Shenghe Resources subsidiary)** has a 10,000 ton NdFeB scrap processing line.

#### Technology Developers and Novel Processors:

**HyProMag USA:** Commercializing the Hydrogen Processing of Magnet Scrap (HPMS) technology, which uses hydrogen to liberate magnets

from scrap without melting or heavy chemical use. The output is metal powder suitable for remanufacturing.

**Critical Materials Recycling Inc.:** Focuses on the Acid-Free Dissolution Recycling (ADR) process to recover REEs from dilute E-waste streams (like shredded HDD) and magnet swarf.

**REEMAG:** Developed two patented technologies for a low-cost and carbon-free method to reduce scrap and E-waste back to a reusable state for new magnet creation.

**REECycle:** Aims to recover REEs from electronic devices (E-Waste) and is planning a commercial scale plant with an initial capacity of up to 100 tons per year of RE oxides.

## Opportunities and Challenges

The RE Recycling sector is poised for exponential growth but faces technical and economic hurdles.

### Opportunities

**Addressing Geopolitical Risk:** Recycling directly creates Domestic Supply Security in North America and Europe, circumventing the concentration risk posed by China's dominance in mining and refining and its subsequent use of export controls on RE processing technology and HREEs (Dy, Tb).

**Expanding Feedstock Volume:** The impending retirement of first-generation EVs, wind turbines, and electronics will drastically increase the volume of end-of-life magnets available for recovery, moving recycling from primarily industrial scrap to consumer end-of-life products.

**Green Credentials:** RE recycling offers a significantly lower environmental footprint compared to virgin mining, appealing to automakers (OEMs) and electronics manufacturers seeking to

meet sustainability targets. REEMAG is marketing a carbon-free recycling method.

**Alternative to REE Reduction:** While some Japanese firms (Proterial, Daido Steel, Nissan, Daikin, Astemo) are developing heavy rare earth reduction or free magnets to lower demand risk, recycling ensures the efficient use of existing REE content, particularly the expensive Heavy Rare Earths.

## Challenges

**Collection and Dismantling:** Recovering RE magnets from complex end-of-life products (e.g., EV motors) is difficult, time-consuming, and labor-intensive, often requiring the specific, careful removal of the magnet component to maintain purity and value.

**Economic Viability of Dilute Feedstock:** E-waste streams often have low concentrations of REEs, making recovery costs high and profitability challenging compared to mining or industrial scrap recycling.

**Technological Scaling and Purity:** New, clean technologies (ADR, HPMS, Chromatography) need to prove their ability to scale up to commercial metrics while consistently achieving the 99.9% purity required for magnet-grade RE oxides.

**Competition from Primary Supply:** The recycling market is highly sensitive to the price volatility of virgin REEs. If mining output increases or prices drop substantially, the economic incentive for recycling can diminish, despite the strategic benefits.

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