

Members Directory

Rare Earth Industry Association



Table of Contents

04

About this Directory

05

Our Members

06

Sector: Mining

24

Sector: Processing & Manufacturing

44

Sector: Recycling

50

Sector: Service Provider

62

About REIA

About This Directory

The Rare Earth Industry Association (REIA) is the pre-eminent global industry association for the promotion and development of the rare earth value chain and its stakeholders. The Association's brings together more than 60 members, who are drawn from across the value chain and include public and private companies, research and academic institutions, and other stakeholders with relevant interests.

This directory has been produced to promote these members and showcase their expertise, products, technologies, and ongoing innovation. It is intended to facilitate exchange with peers as well as policy makers, researchers, and other key stakeholders who may have an interest in their businesses.

For ease of reference, the directory is structured around the stages of the life cycle in which our members Operate.

It is divided into four general categories:

- Mining;
- Processing & Manufacturing;
- Recycling; and
- Service providers.

The final category includes companies working in consulting, transportation, media, trading, investment, as well as research and development. Note that some members in reality operate across multiple stages, but we have listed them only once.

This directory will be updated every year and will be made available to the public on our website. <https://global-reia.org/>

Our Members



Sector: Mining

Aclara Resources Inc
Afrimat Ltd
Appia Rare Earths & Uranium Corp
Arafura Rare Earths Ltd
Ascension
Australian Strategic Materials Ltd
Defense Metals Corp
Energy Fuels (USA) Inc
Finnish Minerals Group
Iluka Resources Ltd
Leading Edge Materials Corp
Mkango Resources Ltd
Mongolian National Rare Earth Corp LLC
Namibia Critical Metals Inc
OD6 Metals Pty Ltd
Pensana Plc
Rainbow Rare Earths Ltd
Rare Earths Norway AS
St George Mining Ltd
Torngat Metals Ltd
Tronox Holdings Plc
USA Rare Earth Inc
Uzbekistan Technological Metals
Complex JSC

Aclara Resources Inc



Aclara Resources Inc

 Suite 1700, 666 Burrard Street
Vancouver, British Columbia,
V6C 2X8

Canada

 investorrelations@aclara-re.com
 www.aclara-re.com

Aclara Resources Inc. (TSX:ARA) is a Canadian rare earth company that develops a vertically integrated heavy rare earth supply chain, from mine to metals and alloys, anchored by ionic clay deposits in South America with a dedicated separation and metallization facility in the United States. The Company's principal assets include the Carina Project in Brazil and the Penco Module in Chile, which leverage Aclara's patented Circular Mineral Harvesting technology to produce Super Pure Rare Earth Carbonate (SPREC), a high-grade rare earth carbonate containing approximately 99% rare earth content, through a process that generates no tailings and recirculates water and reagents. In 2026, Aclara completed the Feasibility Study for Carina, while Penco received final environmental approval in Chile. The U.S. facility is supported by a Letter of Interest from the U.S. EXIM Bank for up to US\$750 million and selected U.S. Department of Energy funding for AI-enabled processing technologies. Through Aclara Metals, its joint venture with CAP S.A., the Company is advancing downstream metals and alloys production and expanding its Brazilian exploration portfolio through a partnership with the Japan Organization for Metals and Energy Security (JOGMEC).

Afrimat Ltd

Afrimat Ltd is a successful multi-commodity, mid-tier mining company that produces and supplies construction materials, iron ore, anthracite and other minerals, including the Glenover Rare Earth project. Glenover is a multi-commodity project that is targeting the production of rare earths, and its iron-phosphate feedstock opens a potential pathway into LFP and LMFP battery value chains, making it one of South Africa's most compelling critical minerals platforms. The Afrimat Group is listed on the Johannesburg Stock Exchange Main Board under the Basic Materials: General Mining sector. Additionally, Afrimat's Contract Mining Services offers full pit-to-port solutions to the mining, construction, and quarry industries throughout Southern Africa. As part of Afrimat's diversification strategy, the company constantly looks for more opportunities to grow its product offering and for strategic partners to enable this strategy.



Afrimat Ltd

Tyger Valley Office Park No. 2
Cnr Willie van Schoor and
Old Oak Rd
Bellville, Cape Town 7530

South Africa

info@afrimat.co.za
www.afrimat.co.za



Appia Rare Earths & Uranium Corp

Appia Rare Earths & Uranium Corp. (CSE:API, OTCQB:APAAF) is a Canadian critical mineral exploration company focused on advancing multiple rare-earth and uranium projects in mining-friendly regions, including Brazil, Saskatchewan, and Northern Ontario. The company aims to capitalize on the growing demand for critical minerals essential for electric vehicles, wind turbines, and advanced renewable electronics. The company core activities include exploration and development across a diversified portfolio. Key assets include the Elliot Lake project in Ontario, which hosts five known zones of mineralization. The company also holds the PCH Ionic Adsorption Clay Project in Goiás, featuring both Ionic Adsorption Clay and high-grade carbonatitic breccia mineralization, as well as four high-potential early-stage uranium projects in the Athabasca Basin. Their main products and technologies focus on rare-earth elements (REE) including neodymium, praseodymium, dysprosium, and terbium, alongside uranium.



Appia Rare Earths & Uranium Corp

3310 S Service Rd
Burlington, ON L7N 3M6

Canada

tdrivas@appiareu.com
www.appiareu.com



Arafura Rare Earths Ltd



Arafura Rare Earths Ltd

11 Mounts Bay Road,
6000 Perth, Western
Australia

Australia

marketing@arultd.com
arafura@arultd.com
www.arultd.com



Arafura Rare Earths Ltd (Arafura) is an Australia-based company focused on developing its 100%-owned Nolans Project. A fully integrated single-site facility that will include mining and processing through to separated rare earth oxides. With a designed production capacity of 4,440 tpa NdPr oxide and 2000 tpa SEG-HRE oxide product (includes dysprosium, terbium and yttrium).

Arafura has secured a comprehensive capital package to finance the project construction through to production. This includes US\$900m in equity from cornerstone investors, strategic government investment, and public placements, and US\$1,055m in credit-approved debt facilities by global lenders. Arafura announced a Final Investment Decision on 21 May 2026, targeting production to start in early 2030 to supply OEM and tier 1 customers under binding offtake commitments.

Ascension

Ascension offers a new way to source critical minerals from the earth. Its unique new process respects the environment and communities. Ascension focuses on unlocking a vast new global supply of rare earths – including the heavy rare earths – contained in volcanic rock. The process has low environmental impact, is rapid to deploy and is capex and opex light. It is powered by natural geothermal heat, and the in-situ technology means there is no need to undertake large-scale mining operations or generate significant volumes of waste. The company has world-leading domain knowledge. Ascension spans out of Oxford University, where the underlying technology behind the process was developed, in 2024. Ascension's investors include Oxford Science Enterprises, East X Ventures, Global Brain, the UK Innovation and Science Seed Fund, and the Grantham Foundation for the Protection of the Environment.

Ascension

Ascension

46 Woodstock Rd
Oxford OX2 6HT



United Kingdom

james@ascension.global



www.ascension.global



Australian Strategic Materials Ltd



Australian Strategic Materials Ltd

Level 3, 46 Colin Street
West Perth, WA 6005

Australia

info@asm-au.com

www.asm-au.com

Australian Strategic Materials Ltd. (**ASM**), is a wholly owned subsidiary of Energy Fuels Inc. The Group has a long-term growth strategy to build a fully integrated, Western rare earth supply chain spanning mineral production, rare earth separation, metals and alloys, and permanent magnets. Following its acquisition by Energy Fuels in August 2026, ASM brings two assets that address different stages of this mine-to-magnet rare earths platform.

ASM's Korean Metals Plant (**KMP**), located in Ochang, South Korea, is one of the few facilities outside of China capable of producing the rare earth metals and alloys that are the vital ingredients in the production of high-performance, rare earth permanent magnets. The KMP is in commercial production of NdFeB alloy and NdPr metal, and is scaling up its production capability of heavy rare earth metals (Tb and Dy).

The Dubbo Project in NSW, Australia, is ASM's long-life resource of rare earths and critical minerals and now forms part of Energy Fuels' pipeline of potential development projects. ASM is in the process of completing a pre-feasibility study due for completion in H2 2026.

Defense Metals Corp

Defense Metals Corp. is a Canada-based mineral exploration and development company focused on advancing strategically critical rare earth elements (REEs) for Western defense, technology, clean energy and advanced manufacturing supply chains.

The Company's flagship asset is its 100%-owned Wicheeda Rare Earth Element Project in British Columbia, one of the most advanced undeveloped rare earth projects in North America. Wicheeda is focused on the production of neodymium-praseodymium (NdPr) oxides, which are essential inputs for high-performance permanent magnets used in electric vehicles, wind turbines, robotics, aerospace, defense and other advanced technologies.

Wicheeda is distinguished as the only undeveloped rare earth project in North America with a published mineral reserve, providing a strong foundation for advancing the project toward feasibility, permitting and ultimately production.

Defense Metals is committed to developing Wicheeda as a reliable, long-term source of critical rare earths for Western markets. The Company's process development work is focused on producing a high-purity final product, with the potential to support strong project economics and resilience across a range of REE pricing environments.

Defense Metals continues to engage with governments, strategic investors, industry participants and potential offtake partners to advance technical collaboration, project financing and commercial partnerships, with the objective of establishing Wicheeda as a secure and competitive North American source of critical rare earth elements.



Defense Metals Corp
1020 – 800 West Pender
Street, Vancouver BC V6C
2V6
Canada
info@defensemetals.com
www.defensemetals.com



Leading Edge Materials Corp



Leading Edge Materials Corp.

Lvl 14, 1040 W Georgia St
Vancouver BC V6E 4H1

Canada

info@leadingedgematerials.com
www.leadingedgematerials.com



Leading Edge Materials Corp. is a Canadian-listed company focused on developing critical raw material assets across the European Union. Its primary focus is the wholly owned Norra Kärr Heavy Rare Earth Elements project in Sweden — one of the world's most strategically significant heavy rare earth deposits and among the few advanced-stage projects within the EU capable of producing dysprosium, terbium, and yttrium at meaningful scale. Situated in one of the globe's most politically and regulatory stable mining environments, Norra Kärr is well-positioned to contribute directly to the objectives of the EU's Critical Raw Materials Act, including the bloc's target of sourcing 10% of its critical raw material consumption domestically by 2030. On 28 June 2026, the Swedish Government granted a 25-year mining lease for Norra Kärr and stated it "could meet a large part of Sweden and Europe's supply needs". Beyond rare earths, the Company also holds the Woxna Graphite mine in Sweden — a fully constructed and permitted facility — as well as a 90% stake in the Bihor Sud Nickel-Cobalt exploration alliance in Romania.

Energy Fuels (USA) Inc



Energy Fuels (USA) Inc.

Ste 600, 225 Union Blvd
Lakewood, Colorado 80228



United States

info@energyfuels.com



www.energyfuels.com



COMPANY OVERVIEW

Energy Fuels Inc. (NYSE American: UUUU) (TSX: EFR) (ASX: EF2) is a leading U.S.-based critical minerals company. Energy Fuels produces high-purity, separated rare-earth oxides for advanced technologies and aims to build a globally competitive, integrated rare-earth supply chain with the pending acquisition of Australian Strategic Materials Ltd. (**ASM**) for rare-earth metals and alloy products and VACUUMSCHMELZE GmbH (**VAC**), an established commercial rare-earth permanent magnets and soft magnets manufacturer. Energy Fuels is also the largest U.S. producer of natural uranium concentrates, the first step in producing fuel for carbon-free nuclear energy. In addition, Energy Fuels produces titanium- and zirconium-bearing minerals for a variety of industrial applications and is advancing the production of medical isotopes for use in emerging life-saving cancer treatments.

CORE ACTIVITIES

Energy Fuels' core activities are increasingly focused on building a fully integrated, Western rare-earth supply chain spanning mineral production, rare-earth separation, metals and alloys, and permanent magnets. It also produces high-purity, separated rare-earth oxides from monazite at its White Mesa Mill in Utah, including commercial-scale NdPr oxide, and is advancing the separation of additional rare-earth elements, including Sm, Dy, and Tb.

Through its global heavy mineral sands portfolio, Energy Fuels is able to secure long-term, low-cost sources of monazite and other rare-earth mineral feedstocks.

The pending acquisitions of ASM and VAC are expected to extend Energy Fuels' capabilities downstream into rare-earth metals and alloys, and high-performance permanent magnets, respectively, creating an integrated mine-to-magnet supply chain.

Energy Fuels also maintains significant uranium production capabilities in the United States and plans to conduct medical isotope separation research at the White Mesa Mill.

MAIN PRODUCTS AND TECHNOLOGIES

Energy Fuels' main products include:

- Rare-Earth Oxides, Metals & Alloys (pending ASM), REPM (pending VAC)
- Uranium (U_3O_8)
- Heavy Mineral Sands: Titanium and zirconium-bearing minerals
- Vanadium (V_2O_5)
- Medical Isotopes

Finnish Minerals Group



**FINNISH
MINERALS
GROUP**

Finnish Minerals Group

Lvl 8, Keskuskatu 5 B

00101 Helsinki

Finland

firstname.lastname@mineralsgroup.fi

www.mineralsgroup.fi



COMPANY OVERVIEW

Finnish Minerals Group is a special-purpose company wholly owned by the State of Finland, tasked with developing the mining and battery industry in the country. Its strategic mission is to responsibly maximize the value of Finnish minerals by developing the value chain of lithium-ion batteries - from mines to battery chemicals and materials. Through its work, the company contributes to Europe's transition towards electric transport and a more sustainable future.

CORE ACTIVITIES

The company's core activities focus on developing a responsible lithium-ion battery value chain in Finland, extending from mines to battery chemicals and materials. Finnish Minerals Group achieves this through active ownership and by developing a portfolio of key companies and projects such as Terrafame Oy (a subsidiary producing nickel and cobalt sulphates) and Sokli Oy.

RARE-EARTH EXPERTISE

Finnish Minerals Group's rare-earth expertise is concentrated in the Sokli mining project, which is recognized as one of Europe's most significant sources of rare-earth elements.

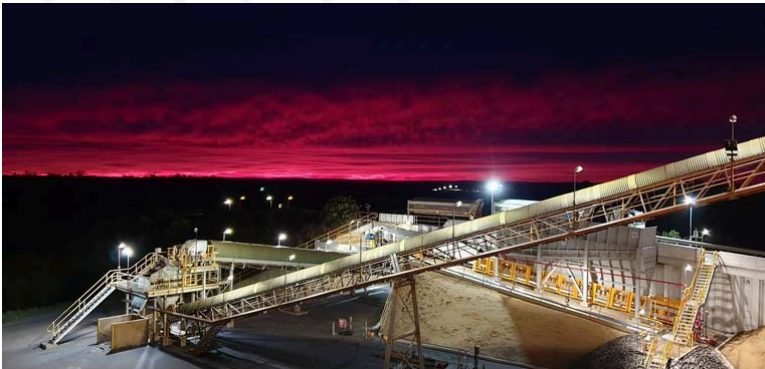
The Sokli deposit in Savukoski, Eastern Lapland, is a globally significant mineral resource that contains rare-earth elements. The project aims to examine the potential for producing rare-earth elements, which are widely used in electric motors, wind turbine generators, and defense technologies.

MAIN PRODUCTS AND TECHNOLOGIES

Finnish Minerals Group's portfolio companies produce or are developing a range of critical materials and technologies:

- Battery Chemicals: Nickel and cobalt sulphates, lithium hydroxide.
- Battery Materials: Cathode active material.
- Battery Systems: Modular and battery solutions for vehicle segments.
- Minerals: Phosphate, iron, and rare-earth elements, niobium, and vermiculite.

Iluka Resources Ltd



Iluka Resources Ltd
Lvl 17, 240 St Georges Terrace
Perth WA 6000
Australia
www.iluka.com



COMPANY OVERVIEW

Iluka Resources Ltd is a global critical minerals company with more than 70 years' industry experience in exploration, project development, mining, processing, marketing and rehabilitation. The company is a leading producer of zircon and high-grade titanium dioxide feedstocks.

CORE ACTIVITIES

Iluka's core activities span the entire critical minerals value chain, from exploration and mining to processing, marketing and rehabilitation. Iluka's mineral sands operations produce zircon, rutile and synthetic rutile, which are used in an array of applications including technology, construction, medical, lifestyle, defence and industrial uses.

RARE-EARTH EXPERTISE

Iluka's rare-earth expertise is centered on its Eneabba project. Iluka routinely produces rare earth-bearing minerals - monazite and xenotime - as by-products of mineral sands processing activities. Currently, Iluka has 1 million tonnes of stockpiled concentrate, rich in both light and heavy rare earths, at Eneabba. The company commissioned a concentrator plant at Eneabba to further process the stockpiled material, producing a ~90% monazite concentrate that provides a direct feed to its rare earths refinery.

MAIN PRODUCTS AND TECHNOLOGIES

Iluka's main products include:

- Zircon
- Titanium Dioxide Feedstocks
- Rare-Earth Oxides including neodymium (Nd), praseodymium (Pr), dysprosium (Dy) and terbium (Tb) oxides.
- Activated Carbon and Iron Concentrate

SUSTAINABILITY AND INNOVATION

Iluka is committed to delivering sustainable value. Its rare-earth products are produced as a co-product of mineral sands, offering a significantly lower mining footprint in comparison to many existing producers. The Eneabba refinery is designed with a zero-liquid discharge system, enabling reagents and water used in processing to be recycled and reused.



Mkango Resources Ltd.

Ste 2900, 550 Burrard St
Vancouver BC V6C 0A3

Canada

enzo@mkango.ca
www.mkango.ca

Mkango is listed on the AIM and the TSX-V Stock Exchanges. Mkango's corporate strategy is to become a market leader in the production of recycled rare earth magnets, alloys and oxides, through its 79.4% interest in Maginito Limited, and its 100% interest in Remloy to develop new sustainable sources of neodymium, praseodymium, dysprosium and terbium to supply accelerating demand from electric vehicles, wind turbines and other clean energy technologies.

Maginito holds a 100 per cent interest in HyProMag Ltd and a 90 per cent direct and indirect interest in HyProMag GmbH, focused on short loop rare earth magnet recycling and manufacturing in the UK and Germany, respectively, and a 100 per cent interest in Mkango Rare Earths UK Ltd, focused on long loop rare earth magnet recycling via a chemical processing route.

Maginito and CoTec Holdings Corp. are also expanding HPMS recycling technology into the United States via the 50/50 owned HyProMag USA joint venture company.

Remloy has developed a plant in Bitterfeld, Germany, which recycles end-of-life rare earth magnets via a melting process (medium loop rare earth magnet recycling) to produce neodymium-iron-boron ("NdFeB") alloy powders for the bonded and hot deformed magnet markets, complementary to HyProMag's short loop recycling process, to produce sintered magnets, and to Mkango UK's long loop recycling process, to produce mixed rare earth carbonates and oxides.

Mkango owns 100% of the advanced stage Songwe Hill rare earths project in Malawi and the proposed Puławy rare earths separation plant in Poland. Songwe has received Development Funding from the U.S. International Development Finance Corporation, securing US\$4.6 million in reimbursable funding for Front End Engineering and Design. Mkango's subsidiary Mkango Rare Earths Limited signed a Business Combination Agreement with Crown PropTech Acquisitions to list the Songwe Hill and Puławy rare earths projects on NASDAQ via a SPAC merger.

PRODUCTS:

- Recycled NdFeB sintered magnets
- Recycled NdFeB sintered magnet blocks
- Recycled NdFeB alloy powders for sintered magnet manufacture
- Recycled NdFeB alloy powders for bonded and hot deformed magnet manufacture
- Future production of Mixed Rare Earth Carbonate and Rare Earth Oxides from our upstream assets.

Mongolian National Rare Earth Corp LLC



Mongolian National Rare Earth Corp LLC

Lvl 14, Trade and Development Bank of Mongolia HQ

19 Peave Ave
SBD - 1st khoroo
Ulaanbaatar 14210

Mongolia

✉ info@mnrec.mn

🌐 www.mnrec.mn

Mongolian National Rare Earth Corp LLC (**MNREC**) is a Mongolian company established in 2010, that focuses on geological exploration and mining investment. The company is currently focused on the Khalzan Buregtei Project in Myangad soum, which holds the largest reserves among Mongolia's six rare-earth deposits registered in the State Mineral Fund and is the most advanced in terms of exploration.

The project is a world-class heavy rare-earth element deposit, rich in high-demand critical metals including Dy, Nd, Pr, and Tb. MNREC's primary product will be a high-grade Mixed Rare Earth Oxide (**MREO**). By producing a value-added end product, the company aims to become a pioneering force in Mongolia's rare-earth sector, contributing significantly to job creation, infrastructure development, and economic expansion in the western region.

Namibia Critical Metals Inc

Namibia Critical Metals Inc. is a Canadian mineral exploration and development company focused on the Lofdal Heavy Rare Earth Project, one of the few globally significant sources of dysprosium, terbium and yttrium - critical materials essential to permanent magnets used in electric vehicles, wind turbines, and defense technologies. Following the completion of a Pre-Feasibility Study, the Namibia Critical Metals has now progressed Lofdal toward a Definitive Feasibility Study in partnership with the Japanese government agency Japan Organization for Metals and Energy Security (**JOGMEC**) and global trading house Toyota Tsusho Corporation, positioning the project as a strategic non-Chinese supply source for the global rare-earth value chain.



Namibia Critical Metals Inc

Ste 802, 1550 Bedford Hwy
Bedford, NS B4A 1E6

Canada

✉ Info@NamibiaCMI.com

🌐 www.NamibiaCriticalMetals.com

OD6 Metals Pty Ltd



OD6 Metals Pty Ltd.

 Lvl 1, 1 Alvan St
Subiaco WA 6008

Australia

 info@od6metals.com.au
 www.od6metals.com.au

OD6 Metals Pty Ltd. is an Australian public company focused on exploring and developing critical minerals, with a diversified portfolio spanning rare-earth elements, fluorspar, and copper-zinc projects. The company's flagship asset is the 100%-owned Splinter Rock Rare Earths Project in Western Australia's Esperance-Goldfields region, which hosts Australia's largest and highest-grade clay-hosted rare earths deposit and high-value magnetic rare earths (neodymium, praseodymium, dysprosium, terbium) representing approximately 23% of the resource. OD6 Metals selected an innovative processing flowsheet based on heap leaching with nanofiltration, ion exchange, and impurity removal, targeting ~75% recovery of neodymium and praseodymium to produce high-quality Mixed Rare-Earth Carbonate (**MREC**) and Mixed Rare-Earth Hydroxide (**MREH**) with extremely low uranium and thorium content. The company's assets also include the Quinn Fluorspar Project in Nevada, USA, and the Gulf Creek Copper-Zinc Project in New South Wales.

Pensana Plc

Pensana Plc. is a London-based company that aims to establish a fully integrated, independent, and sustainable rare-earth supply chain, anchored by one of the world's largest magnet-metal rare-earth mines in Angola and a processing hub in the UK. The company is focused on the Longonjo Rare Earths Refinery Project in Angola, a near-surface deposit producing mixed rare-earth double sulphate, which is then shipped to the separation facility in the UK. Pensana focuses on producing high-purity Neodymium and Praseodymium (NdPr) oxides for the permanent-magnet market used in electric vehicles and wind turbines, while also developing a circular economy through research in magnet recovery and recycling. Sustainability is a cornerstone, with the company committed to net-zero across its value chain by no later than 2040 and it aims to produce the lowest embedded carbon products on the market, leveraging renewable energy and efficient plant design.

PENSANA Plc

Pensana Plc

Lvl 4, Rex House
4-12 Regent St 
London SW1Y 4PE

United Kingdom

 admin@pensana.co.uk
 www.pensana.co.uk

Rainbow Rare Earths Ltd

Rainbow Rare Earths Ltd aims to be a forerunner in the establishment of an independent and ethical supply chain of the rare-earth elements (**REE**) that are driving the green energy transition and other advanced future-facing technologies. It does this successfully via pioneering the first commercial REE recovery from phosphogypsum that occurs as the by-product of phosphoric acid production. These projects eliminate the cost and risk of mining, meaning that they can be brought into production quicker and at a lower cost than traditional hard-rock mining projects.

Rainbow Rare Earths is developing the Phalaborwa Project in South Africa and the earlier stage Uberaba Project in Brazil. Rainbow's process is expected to deliver two products that are highly sought-after by industry: separated neodymium and praseodymium (NdPr) oxide and a SEG+ mixed rare-earth carbonate which will include the valuable heavy rare-earth elements dysprosium and terbium, as well as a range of other commercially important rare earths: samarium, europium, gadolinium and yttrium. These light and heavy REE are critical components for the green energy transition, as well as being extensively used across many civilian and defense applications, as well as exciting new markets, such as robotics and advanced air mobility.



Rainbow Rare Earths Ltd

25 North Row
London, W1K 6DJ

United Kingdom

rainbowrareearths@tavistock.
co.uk

www.rainbowrareearths.com



Rare Earths Norway AS



Rare Earths Norway AS

Eikremsvingen 9
6422 Molde

Norway

✉ tore.malo.oedegaard@nomin.no

🌐 www.rareearthsnorway.com

Rare Earths Norway AS is a Norwegian mining company with the ambition to become a key European supplier of rare earth elements (REEs). The company is developing the Fen Carbonatite Complex in Telemark, Southern Norway, home to Europe's largest documented REE deposit. The project covers the value chain from underground mining and mineral processing to hydrometallurgical production of neodymium-praseodymium (NdPr) oxides and heavy rare earths, as well as niobium, thorium and magnetite products.

REN is developing an innovative "Invisible Mine" concept based on electrified underground operations, extensive tailings backfilling, process-water recycling and energy-efficient processing. The project aims to establish a secure and sustainable European source of critical raw materials, maximize resource utilization and contribute to a more integrated European value chain for permanent magnets.

St George Mining Ltd

St George Mining Ltd is a publicly listed Australian company, quoted on the Australian Securities Exchange (ASX: SGQ) and the Frankfurt Stock Exchange in Germany (FSE: SOG). Furthermore, in 2026, it was included in the S&P Dow Jones Index.

The company is developing projects related to critical minerals in Brazil and Australia, aligned with current demands from the energy transition, technological development and the promotion of quality of life.

In Brazil, the Araxá Project (MG) stands out for its deposits of high-quality rare earth elements and niobium. The combination of these two resources makes a significant contribution to the project's operational and economic viability, which also benefits from the infrastructure available in the region, a skilled workforce and government support to streamline approval processes. The project's leadership team comprises renowned industry professionals with extensive experience in mining and in-depth knowledge of the local geology and culture. Strong ESG commitments — from initial studies through to future commercialization — guide our activities, which are scheduled to start the operation in 2028.

In Western Australia, St George is involved in a number of projects, including Mt Alexander Project, Paterson Project and Lithium Star, related to Copper, Nickel, Lithium and other precious metals.

Working collaboratively with locals and international partners is our way of doing business and generate economic and social value, together with the technology and innovation development.

ST GEORGE
MINING LIMITED

St George Mining Ltd

Lvl 1, 115 Cambridge St
West Leederville WA 6007

Australia

info@stgm.com.au

www.stgm.com.au



Torngat Metals Ltd



Torngat Metals Ltd.

Ste 605, 625 Av. du Président-Kennedy
Montreal QC H3A 1K2

Canada

information@torngatmetals.com

www.torngatmetals.com

Torngat Metals Ltd. is a privately held Canadian company that works to develop the Strange Lake project and supply responsibly produced rare-earth elements used in high-technology and low-carbon-emission solutions. With operations in Quebec, as well as in Newfoundland and Labrador, the company aims to become an internationally recognized source of light rare earths and a world leader in resolving the heavy rare earths supply crisis, particularly dysprosium and terbium. Seeking to build solid partnerships with Inuit, First Nations and local communities, complemented by state-of-the-art engineering and new approaches to minimizing environmental impacts, Torngat Metals aims to play a key role in the global transition to clean energy.

USA Rare Earth Inc

USA Rare Earth, Inc. (Nasdaq: USAR) is building one of the only fully integrated rare earth and permanent magnet value chains outside Asia, from mine to magnet. With operations across the United States, Brazil, and the United Kingdom, the company brings mining, processing, separation, metal-making, alloy production, and magnet manufacturing together on a single platform. Its Pela Ema mine in Goiás, Brazil, operated by Serra Verde, is the only scaled producer of all four magnetic rare earth elements outside Asia. The Round Top deposit in Texas anchors the company's long-term heavy rare earth resource in the United States.

Through Less Common Metals (LCM) in the United Kingdom, one of the world's leading producers of rare earth metals and alloys, USA Rare Earth makes the materials that magnet manufacturers require. The company is building out sintered NdFeB magnet manufacturing capacity in Stillwater, Oklahoma, and developing a second magnet facility in Blacksburg, South Carolina. The secure, responsibly produced rare earth materials, metals, alloys, and magnets USA Rare Earth delivers enable vital high-tech industries that are strengthening national security and economic resilience and driving technological transformation. The company partners with customers and governments across the United States and allied nations in defense, aerospace, semiconductors, data centers, physical AI, robotics, and the broader industrial base.



USA Rare Earth Inc.

100 W. Airport Road
Stillwater, OK 74075



United States

gregory.bowman@usare.com



www.usare.com



TRONOX Holdings Plc



Tronox Holdings Plc

263 Tresser Blvd
Stamford, CT 06901



United States

investorrelations@tronox.com



www.tronox.com



COMPANY OVERVIEW

Tronox Holdings Plc. (NYSE: TROX) is a vertically integrated mining and inorganic chemical business. The company mines and processes titanium ore, zircon, rare earths and other materials, and manufactures titanium dioxide pigment, specialty-grade titanium dioxide products and high-purity titanium chemicals. Tronox is one of the world's leading producers of high-quality titanium products. Its products add brightness and durability to paints, coatings, inks, plastics, paper and a vast array of everyday items.

CORE ACTIVITIES

Tronox is a global company that operates titanium-bearing mineral sand mines and engages in beneficiation and smelting operations. The company's operations span the entire value chain: from mining titanium-bearing mineral sands and operating upgrading facilities that produce high-grade titanium feedstock materials, to the manufacture and sale of titanium dioxide pigment. Tronox's mining, beneficiation and smelting of titanium bearing mineral sands creates meaningful quantities of zircon, pig iron and the rare-earth bearing mineral, monazite.

MAIN PRODUCTS AND TECHNOLOGIES

Tronox's main products include:

- Titanium Dioxide Pigment (TiO₂)
- Mineral Sands
- Ultrafine and Specialty Titanium Dioxide
- Titanium Chemicals
- Zircon
- Monazite
- Other Products – the process of manufacturing TiO₂ results in many secondary products, ranging from acids, salts, solids, liquids and gases used within a variety of industries.

TRONOX Holdings Plc

OPERATIONS AND GEOGRAPHICAL PRESENCE

Tronox operates with approximately 5,700 employees across six continents.

- Mining operations in Australia and South Africa
- Pigment facilities in the United States, Australia, Brazil, and the United Kingdom
- Upgrading facilities that produce high-grade titanium feedstock materials

Tronox has a global presence, with operations spanning domestic and international locations, including mineral sand mines, smelters, and pigment plants.

RARE EARTH EXPERTISE

Tronox's existing mining operations and tailing piles in South Africa and Australia contain significant quantities of monazite, containing rare-earth elements like neodymium and praseodymium, widely recognized as a critical mineral for the energy transformation. The company progressed to a definitive feasibility study for a proposed cracking and leaching facility in Western Australia to produce a mixed rare-earth carbonate including both light and heavy rare earths. Tronox works with downstream customers and other key business partners to develop a financeable project structure. Tronox explores refining monazite further in Western Australia,, potentially positioning the company as a major Western rare earths supplier over the next several years.

SUSTAINABILITY AND INNOVATION

Tronox is committed to sustainable operating practices, and believes that profitability and sustainability are complementary, not in opposition. The company published the 2025 Sustainability Report, which highlights the achievement of its 2025 sustainability-related targets:

- A 27% reduction in Scope 1 and 2 greenhouse gas emissions intensity versus the 2019 baseline, exceeding the target of 25%.
- Increased renewable energy generation in South Africa and Australia.
- About 40% of the power Tronox needs to run its South African operations comes from renewable energy.

Tronox's commitment to sustainability supports its overall vision and strategy to be the world's leading vertically integrated TiO₂ producer.

Uzbekistan Technological Metals Complex JSC



Uzbekistan Technological Metals Complex JSC

1 Vohid Khaydarov St
Chirchik, Tashkent Region 111709

Republic of Uzbekistan

info@uztmk.uz

www.uztmk.uz



COMPANY OVERVIEW

"Uzbekistan Technological Metals Complex" JSC (**TMK**) is the state-owned enterprise responsible for the Republic of Uzbekistan's critical and strategic raw material assets. Established in 2024, it is headquartered in Tashkent, with its principal production site in Chirchik. TMK's mission is to build a sustainable "Future Metals Technopark" ecosystem through an integrated Mine-Metal-Market value chain, positioning Uzbekistan as a secure and reliable supplier for high-tech manufacturing, aerospace, defence, semiconductors and digital infrastructure.

CORE ACTIVITIES

TMK integrates geological exploration, mining, processing and downstream manufacturing into a single vertically integrated chain, implementing over 122 investment projects with total estimation of 4.2 billion USD for 2026-2030 across more than 25 strategic minerals. Its structure includes the Future Metals Technopark, operating across three sites in Uzbekistan, and a modern R&D Park dedicated to the development of new technologies, alongside subsidiaries such as Smart Powder and TMK Chemicals. The company has signed memorandums of cooperation with more than 100 leading companies from over 35 countries and has become a member of several prestigious international associations:

- International Tungsten Industry Association (ITIA)
- International Molybdenum Association (IMOA)
- European Carbon and Graphite Association (ECGA)
- European Raw Materials Alliance (ERMA)
- International Lithium Association (ILiA)
- International Magnesium Association (IMA)
- Minor Metals Trade Association (MMTA)
- Rare Earth Industry Association (REIA)
- International Association of Science Parks and Areas of Innovation (IASP)
- Amira Global

Uzbekistan Technological Metals Complex JSC

MAIN PRODUCTS AND TECHNOLOGIES

Core products cover tungsten, molybdenum, rhenium, high purity selenium and tellurium, rare earths and graphite, together with downstream products including tungsten carbide, master alloys and metal powders. Key projects include the Sarikul tungsten deposit, the Taskazgan graphite project, rhenium production. Processing capability spans hydrometallurgy, powder metallurgy and hard-alloy production.

RARE EARTH EXPERTISE

TMK is actively developing its rare and rare earth metals capability. The company is working on technologies for the recovery of valuable components from technogenic waste, and is studying the productive solutions of uranium deposits in the Navoi region in order to assess the prospects for recovering associated rare metals. This work is carried out together with research institutions and international technology partners.

SUSTAINABILITY AND INNOVATION

TMK applies ESG principles and green metallurgy across its operations, combining modern corporate governance with responsible resource development. Current projects include molybdenum and tungsten hydrometallurgy facilities waste reprocessing, the processing of tungsten-bearing technogenic waste, and lithium-ion battery recycling – placing secondary raw materials at the centre of the company's circular economy approach. TMK presented its industrial and environmental projects at Eco Expo Central Asia 2026.



Sector: Processing & Manufacturing



Allied Metals Corp
B&C Speakers
BEC Gesellschaft für
Produktmanagement
Bomatec AG
Brugger Magnetsysteme GmbH
Bruker France SAS
Carester
Grundfos Holding
Hertha Metals
Ionic Rare Earths Ltd
JL MAG Rare-Earth Co.
L3 Process Development
Maglut Heavy Industries Inc
Neo Performance Materials Ltd
Permag LLC
Saskatchewan Research Council
Shin-Etsu Magnetics Europe GmbH
Solvay

Allied Metals Corp

Allied Metals Corp is an innovative industry leader, that acts as a global source of a broad range of High Purity Iron and Low Carbon Iron products. American-based, with decades of proven presence in Europe and Asia, the company serves the aerospace, automotive, and energy sectors, among others. The company's products enter into the composition of a wide variety of alloys used in advanced engineering systems. These systems operate in conditions of extreme temperature and corrosive atmospheres, most notably in aerospace manufacturing, and the entire spectrum of oil and gas exploration, refining, distribution, transportation, and energy storage. Allied Metals' patented ALLIEDPUREIRON® is used in the manufacturing of sophisticated equipment in the High Energy Physics industry, including electromagnets, superconducting magnets, permanent-magnet assemblies, and magnetic shielding. As a global partner in specialty alloy manufacturing, the company positions itself as an essential participant in the manufacturing of rare-earth permanent magnets. The company's operations, technology, and market resources are tightly integrated, with a significant presence in every market around the world. Allied Metals can provide locally sourced material, which positions it as a preferred partner in the high purity iron supply for the highly specialized melting industry. The company aims to be well informed on innovation of technologies wherever they are evolving, with its products responding to ever-increasing performance requirements to be ready when industry needs more sophisticated and exceptional quality iron or steel alloying elements.



Allied Metals Corp
2668 Lapeer Rd
Auburn Hills, MI 48326



United Sales
info@alliedmet.com
www.alliedmet.com



Bruker France SAS



Bruker France SAS

 34 Rue de l'Industrie
67166 Wissembourg Cédex

France

 christophe.logel@bruker.com
 www.bruker.com

Bruker France S.A.S. is the world's largest manufacturer of superconducting magnets for nuclear magnetic resonance (**NMR**), with its Ascend and Ascend Evo magnets featuring exceptional magnetic field quality. Beyond superconducting magnets, Bruker provides analytical solutions for the rare-earth value chain. Bruker also offers micro-XRF analysis for identifying trace elements and minerals in REE-bearing materials, and provides EDS and WDS microanalysis for characterizing REE-rich phases in recycled NdFeB permanent magnets. Bruker is committed to implementing ESG commitments in its raw material supply chains and developing its permanent-magnet value chain with a geographically and vertically diversified rare-earth partner network. Bruker contributes to the rare-earth value chain both as a major consumer of rare-earth materials in its superconducting and permanent magnets and as a provider of analytical tools essential for rare-earth exploration, quality assessment, and recycling.



B&C Speakers

Via Poggiomoro, 1
50012 Bagno a Ripoli, Firenze
Italy

mail@bcspeakers.com
www.bcspeakers.com



COMPANY OVERVIEW

B&C Speakers is one of the largest professional loudspeaker transducer manufacturers in the world. The company is positioned as a high-performance niche player, distinguished by advanced engineering capabilities and deep integration with OEM partners. The company designs, produces and trades all of its products directly from its head office in Italy. B&C Speakers is a brand within the B&C Group, with almost 400 employees worldwide. The company supplies OEM components to many of the top professional audio brands in the market today.

CORE ACTIVITIES

B&C Speakers specialises in the design, production, and marketing of professional electroacoustic transducers. All products are built in a factory in Bagno a Ripoli, Florence, consolidating all processes for reduced material handling, contiguous production lines, and improved supervision. The company produces over eight hundred high-frequency drivers and one thousand four hundred low-frequency drivers per day.

MAIN PRODUCTS AND TECHNOLOGIES

B&C Speakers' primary product line consists :

- Low-Frequency Drivers (Woofers)
- High-Frequency Drivers (Compression Drivers & Tweeters)
- Coaxial and Triaxial Transducers

RARE EARTH EXPERTISE

B&C Speakers has deep expertise in rare earth permanent magnets, representing the finished products segment of the rare earth supply chain. The company uses neodymium magnets extensively across its product range and has participated in EU-funded projects to develop a recycling supply chain for rare earth magnets in Europe. B&C Speakers contributes to the rare earth value chain as a major consumer of neodymium magnets, enabling lighter, more powerful, and more efficient loudspeaker designs that contribute to energy efficiency in sound reinforcement applications.

Bomatec AG



BOMATEC

MORE THAN JUST MAGNETS

Bomatec AG

Hofstrasse 1
8181 Höri



Switzerland

contact@bomatec.ch

www.bomatec.com



COMPANY OVERVIEW

Bomatec AG is a Swiss developer and manufacturer of permanent magnets, magnetic assemblies and sensor solutions for automotive, medical technology, e-mobility, renewables and factory automation. Founded in 1993 and around 300 people strong, we have built up know-how along the entire value chain: from material development and design through production and quality assurance to delivery.

Four locations, one purpose: being where our customers are. Höri near Zurich brings management, engineering and sales together for Europe. Malaysia is our own plant for injection-molded and compression-bonded magnets and magnetic assemblies. Toronto covers North America, Ningbo covers Asia and our manufacturing base. That means local time zones, local language, and samples and audits within days rather than weeks.

CORE ACTIVITIES

- Manufacturing of injection-molded and compression-bonded magnets and magnetic assemblies at our Malaysian plant
- Development and engineering of magnetic materials, custom-designed assemblies and their applications, with engineering support, FEM simulations and feasibility studies
- Qualification, monitoring and standardization of every manufacturing site to one uniform standard: prototype and PPAP validation to IATF 16949, batch-by-batch quality control, annual audits and 8D complaint handling
- Order coordination including EDI and customer portals, flexible delivery options with optional logistics services: repacking, consignment stock, just-in-time and safety stock

PRODUCTS AND TECHNOLOGIES

The full material range from one source, selected by application:

- Sintered, plastic-bonded (injection and compression molded) and hot-pressed NdFeB magnets
- Sintered and injection-bonded SmCo, plastic-bonded SmFeN, sintered ferrite
- Sensor magnets and magnetic assemblies using general export licenses
- Variety of HRE-free grades and streamlined export license processing
- Assembly expertise to improve quality and reduce costs, and eddy-current reduction in motors with our proprietary Snakeline technology



Brugger Magnetsysteme GmbH

Gewerbestr 23
78739 Hardt

Germany

info@brugger-magnet.de

www.bugger-magnet.de



COMPANY OVERVIEW

Brugger Magnetsysteme GmbH is a German manufacturer, facilitator and integrated solution provider, with a portfolio ranging from high-quality standard items to complex special systems developed in a visionary way. The company operates from its headquarters in Hardt, Germany, where all key processes are bundled in one location.

CORE ACTIVITIES

Brugger's core activities span the entire magnetic value chain: from the initial metal processing in stamping and pressing to the high-precision production of drawn and plastic parts through the final assembly, bonding technology and magnetization. The company's experts control complex processes such as plastic injection molding and metal forming directly on site, which ensures maximum planning reliability. Brugger is one of the few manufacturers in Europe with a high level of vertical integration, controlling all critical processes internally including in-house toolmaking for customized customer solutions, production of punching parts, drawn parts and plastic injection molding directly on site, as well as efficient assembly production and magnetization at its Hardt facility.

MAIN PRODUCTS AND TECHNOLOGIES

Brugger's main products include:

- Permanent magnets of all kinds
- Magnet systems
- Magnetic assemblies
- Special systems for industries such as wind power, mechanical engineering, office technology, medical technology, sensor systems, and the automotive sector.

Brugger supports customers from the first sketch through to series production, offering not just components but also the answer to technical challenges.

SUSTAINABILITY AND INNOVATION

Brugger FairMagnet initiative ensures compliance with ecological, economic and social standards throughout the entire supply chain. The company holds ISO 9001 certification and grew continuously, with production and storage areas expanded to meet increasing demand.



Carester

129 rue Servient

69003 Lyon



France

contact@carester.fr



www.carester.fr



COMPANY OVERVIEW

Carester is a key player in designing and optimizing processes for producing pure rare-earth oxides, and aims to help foster the development of more efficient, more environmentally friendly industrial processes. Since it was founded, Carester has brought scientific and industrial experience in the rare-earth sector through a team of world-renowned experts in liquid-liquid extraction and hydrometallurgy.

CORE ACTIVITIES

The company's core activities encompass both service provision and industrial production, advising mining companies on developing and optimizing their processes, including radioactivity elimination with a patented process.

Carester's DNA has driven its mission to speed up the energy transition by offering a European solution for recycling rare-earth elements contained in permanent magnets through its Caremag facility.

In addition to its recycling unit, Carester is building the largest heavy rare-earth separation facility in the Western world, meeting the highest environmental standards.

RARE EARTH EXPERTISE

Carester also has deep rare earth expertise covering the entire extraction process with a focus on removing radioactivity from mineral concentrates and recycling rare-earth elements from permanent magnets, operating a Dismantling Development Center for extracting magnets from end-of-life equipment. Carester has signed a long-term supply agreement for heavy rare-earth oxides to Japan and a supply contract with Stellantis, and aims to progressively transition towards a predominantly recycling-based model with the ultimate goal of achieving carbon neutrality.



Grundfos Holding

Poul Due Jensens vej 7
8850 Bjerringbro

Denmark

bveluri@grundfos.com

www.grundfos.com



COMPANY OVERVIEW

Grundfos Holding is a global pump and water solutions company headquartered in Denmark. The company pioneers solutions to the world's water and climate challenges and improves quality of life for people. Grundfos provides expertise in energy- and water-efficient solutions and systems for a wide range of applications, including water utility, water treatment, industries, and buildings. The company is a founding member of the Rare Earth Industry Association (**REIA**) and has positioned itself as a frontrunner in sustainable sourcing and use of critical raw materials.

CORE ACTIVITIES

Grundfos' core activity is the design, development, and manufacturing of high-efficiency pumps and water solutions. The company uses neodymium-based permanent magnets in the motors of its premium pump products. These permanent magnet motors enable significant energy savings, with pumps using up to 30% less energy than similar pumps with conventional motors.

The company also engages in research and development of innovative materials and processes, including through its subsidiary Sintex, to make Grundfos' innovative materials and processes available outside the pumping industry.

MAIN PRODUCTS AND TECHNOLOGIES

Grundfos' main products and technologies include:

- High-efficiency circulator pumps – The Grundfos Magna series and Alpha line of pumps use neodymium-based permanent magnet motors that deliver up to 30% energy savings compared to conventional motors.
- Permanent-magnet motor technology – Grundfos developed and refined methods for producing permanent-magnet systems for energy-efficient motors, in cooperation with its subsidiary Sintex.
- Water solutions – The company provides solutions for water utility, water treatment, industrial processes, and building applications.

Grundfos Holding

RARE EARTH EXPERTISE

Grundfos has a strong expertise in the use of rare-earth elements (**REE**), particularly neodymium, which is used to manufacture the powerful permanent magnets in its high-efficiency pump motors. Grundfos' rare-earth expertise is demonstrated by:

- **Blockchain-Based Traceability** – In February 2022, Grundfos partnered with BEC Gesellschaft für Produktmanagement mbH, Circularise, Minviro and REIA to lead a three-year EIT RawMaterials-funded innovation project to build a Circular System for Assessing Rare Earth Sustainability (**CSyARES**). This project aims to integrate REIA's sustainability standards for REEs with Circularise's patented traceability technology and Minviro's sustainability metrics.
- **Industry Insights** – Grundfos representatives provided industry insights to EU-led critical raw materials debates, including the European Raw Material Alliance (**ERMA**).

SUSTAINABILITY AND INNOVATION

Sustainability is at the core of Grundfos' operations. The company is committed to reducing its environmental footprint and ensuring a sustainable supply of critical raw materials. Key sustainability initiatives include:

- **Energy Efficiency**: Grundfos' permanent-magnet motors enable significant energy savings, contributing to global decarbonization efforts.
- **Sustainable Sourcing**: Grundfos sources from sustainable suppliers and mapped its supply chain to ensure transparency and compliance.
- **EU Raw Material Alliance** – Grundfos is part of ERMA, a collaboration launched by the European Commission dedicated to securing a sustainable supply of raw materials in Europe.
- **Blockchain Traceability** – Through the CSyARES project, Grundfos works to develop a blockchain-based traceability system to provide certified transparency about the origin of materials, production processes, sustainability, and material properties along the REE supply chain.



BEC Gesellschaft für Produktmanagement mbH



BEC Gesellschaft für Produktmanagement mbH

 Zechenstr 55
47443 Moers
Germany
 info@bec-gmbh.de
 www.bec-gmbh.de

BEC GmbH is an international specialist for magnetic materials and engineered magnetic systems, combining more than 30 years of industry experience with a global footprint across Germany, China, and South Korea. With deep expertise in permanent and soft magnetic materials, BEC transforms complex magnetic challenges into reliable, high-performance solutions for industries ranging from automotive and robotics to aerospace, energy, electronics, and medical technology.

Beyond material supply, BEC acts as a full-cycle engineering partner—supporting customers from feasibility and magnetic design through prototyping, series production, and global logistics. The company's strength lies in its ability to merge technical know-how with resilient supply-chain strategies, including non-China sourcing routes for critical rare earth materials.

Innovation and sustainability shape BEC's identity. The TERRAMAG® product family exemplifies this approach, reducing dependence on critical rare earths while maintaining exceptional magnetic performance. Through its subsidiary BEC Akustik GmbH, the company also extends its expertise into advanced acoustic solutions and proprietary loudspeaker technologies.

Today, BEC is a trusted partner for organizations seeking magnetic innovation, secure sourcing, and long-term technological competitiveness.

Hertha Metals

Hertha Metals is establishing the first commercial-scale U.S. supply of magnet-grade high-purity iron for the global rare-earth permanent magnet industry. Based in Texas, Hertha is already producing iron at volumes exceeding 300 tons per year and is breaking ground on 10,000 tons per year of commercial capacity expected online in Q4 2027.

Hertha has developed a secure, DFARS-compliant U.S. source of 99.9+% Fe magnet-grade iron, providing magnet manufacturers with a resilient and traceable alternative supply chain for defense, automotive, industrial, energy and advanced-technology markets. U.S.-based production enables shorter delivery time, more predictable supply and closer technical support through qualification, specification development and commercialization.

Hertha's proprietary Flex-HERS™ technology is a single-step molten-phase process that converts a broad range of iron feedstocks into high-purity iron, providing a scalable platform for commercial production. The flexible process also creates a pathway to progressively lower-carbon production, including the use of hydrogen, while maintaining the same core production platform.



Hertha Metals

Bldg C, 100 N FM 3083 Rd E 
Conroe, TX 77303

United States

thea.soule@herthametals.com 
www.herthametals.com 

Ionic Rare Earths Ltd



Ionic Rare Earths Ltd

Ste 09 - Lvl 5, North Tower

 525 Collins St
Melbourne VIC 3000

Australia

 investors@ionicre.com
 www.ionicre.com

Ionic Rare Earths Ltd is an Australian company pioneering a sustainable, circular economy for magnet and heavy rare earths through a combination of advanced recycling, refining, and primary mining. Ionic's core activities are built around : its subsidiary Ionic Technologies in Belfast, which uses patented hydrometallurgical technology to recycle spent NdFeB magnets and production swarf into high-purity separated rare-earth oxides (REO); its Makuutu Heavy Rare Earths Project in Uganda, which is currently under strategic review in order to focus on the mid and downstream processing value chain; and the Viridion joint venture in Brazil, which is advancing a REO refinery and magnet recycling facility. The company is committed to sustainability and ESG principles, building closed-loop supply chains that minimise environmental impact while maximising access to critical materials for renewable energy, electric vehicles, defence, and advanced manufacturing. IonicRE contributes to the rare-earth value chain by providing a secure, traceable, supply of separated magnet and heavy rare earths through both primary (mining) and secondary (recycling) paths.

L3 Process Development

L3 Process Development is a Canadian privately held company founded in 2019 and headquartered in Trois-Rivières, Quebec, that specializes in developing processes for the extraction, refining, separation, and metallization of technology metals and critical materials, including rare-earth elements. The company's core offerings center on three niche aspects – flowsheet innovation, multi-scale testing, and innovative business-centered engineering practices – spanning the entire project lifecycle from laboratory-scale development through piloting, demonstration, and large-scale plant design. L3 worked with clients on rare-earth projects, including metallurgical testing and process development for rare-earth and critical mineral deposits. . L3 is committed to delivering projects efficiently, offers a dynamic alternative to archaic project development practices, and helps clients bring critical mineral and technology metal projects to market faster and more cost-effectively, thereby contributing to building secure, diversified supply chains for the clean-energy transition.



L3 Process Development

3851 Boul Gene-H.-Kruger
Trois-Rivières QC G9A 4M4

Canada

www.l3processdev.com





JL MAG Rare-Earth Co.

Madame Curieweg 15
5482 TL Schijndel

Netherlands

info@jlmag.eu

www.jlmag.eu



COMPANY OVERVIEW

JL MAG Rare-Earth Co., Ltd. is one of the world's largest producers of sintered NdFeB permanent magnets, with 40,000 tonnes of installed block capacity in 2025, expanding to 60,000 tonnes by 2027. The group is dual-listed on the Shenzhen and Hong Kong stock exchanges (300748.SZ / 06680.HK) and operates four manufacturing bases in Ganzhou, Baotou, Ningbo and Ganzhou Jincheng, employing 7,302 people including 992 R&D professionals. Production runs from alloy preparation through to finished assemblies and rare earth recycling. Served markets include automotive and EV drivetrains, wind power, industrial motors, inverter air conditioning, humanoid robotics, 3C electronics, rail transit and energy-saving elevators.

87 patents, including 45 invention patents, cover alloy design, sintering profiles, grain boundary diffusion processes and magnet assembly techniques. When a customer needs to discuss a grade specification or a GBD process parameter, the conversation takes place directly with the R&D team that developed it.

JL MAG Rare-Earth Co. (Europe) B.V., based in Schijndel, the Netherlands, is the commercial, technical and logistics hub for the European market, with more than 40 years of rare-earth and magnet industry experience and a multilingual team speaking over 10 languages.

Offices in the United States and Japan extend the same local support model.

PRODUCTS AND TECHNOLOGIES

Sintered NdFeB permanent magnets are the main product line, alongside injection bonded, compression bonded and rubber bonded magnets. Grades in mass production include N60, 58M, 58H, 56SH, 54UH, 52EH and 48AH.

- Grain Boundary Diffusion (GBD): Introduces heavy rare earth elements at the grain boundary rather than throughout the bulk, increasing coercivity without reducing remanence and reducing heavy rare earth consumption by up to 70%.
- HRE-Free Magnets: High-coercivity grades containing no heavy rare earth elements, achieved through alloy design and process control. Designed for applications requiring thermal stability while eliminating the cost and supply risk associated with dysprosium and terbium.
- Cerium Substitution: Replacing part of the PrNd content with cerium and restoring coercivity through GBD. reducing recipe cost by 4–14%.

SUPPLY SECURITY AND RECYCLING

Long-term supply agreements with China Northern Rare Earth Group and China Rare Earth Group secure access to both light and heavy rare earth raw materials, including dysprosium and terbium. Half of the group's PrNd input came from its own recycling operations in 2025, with a target of increasing this share to 65% by 2030.

CERTIFICATIONS AND SUSTAINABILITY

Certified to IATF 16949 (automotive quality), ISO 9001, ISO 14001 (all manufacturing sites), ISO 45001 and TISAX. ISO 14064 greenhouse gas verification conducted annually since 2021. Environmental claims audited to ISO 14021 and independently verified. MSCI ESG rating A, S&P Global ESG score 59. Listed in the S&P Sustainability Yearbook, China for the second consecutive year.

Maglut Heavy Industries Inc

Maglut Heavy Industries

Maglut Heavy Industries Inc

 2388 E Artesia Blvd
Long Beach, CA 90805

United States

 hello@maglut.com
 www.maglut.com

Maglut Heavy Industries Inc. (**MHI**) is a US-based deep-tech venture founded in 2025 by MIT and is headquartered in Long Beach, California. The company aims to build a proprietary chromatography platform to purify rare-earth elements (**REE**) domestically, creating high-purity, magnet-ready rare-earth oxides and metals at low cost without using hazardous solvents. MHI processes REE within the heavy industries sector, offering purification techniques that focus on efficiency and adaptability. Its technology is designed to produce magnet-ready rare-earth oxides and metals. The company develops technological solutions in the field of purification and processing of rare-earth materials.

Saskatchewan Research Council

The Saskatchewan Research Council (**SRC**) is Canada's second-largest research and technology organization, a non-profit corporation that has been driving innovation and commercialization since 1947. With a client base spanning 27 countries, SRC is a global leader in rare-earth processing and works to develop North America's first fully integrated, commercial-scale rare-earth processing facility in Saskatchewan, backed by the Governments of Saskatchewan and Canada.

SRC's core activities encompass the entire rare-earth value chain, from R&D to commercial production, including mineral processing, metallurgical testing, and geoanalytical expertise, with its Rare Earth Processing Facility integrating hydrometallurgy, solvent extraction, and metal smelting. SRC's main products will be magnet-grade metals and oxides, including NdPr metal and Dy and Tb oxides, with the facility projected to produce enough rare-earth metals to power more than 500,000 electric vehicles each year.



Saskatchewan Research Council

Ste 122, 6 Research Dr 
Regina, SK S4S 7J7

Canada

Email 
www.src.sk.ca 

Neo Performance Materials Ltd



Neo Performance Materials Ltd.

Suite 1740, 121 King Street West
Toronto, ON M5H 3T9,

Canada

ir@neomaterials.com
www.neomaterials.com



COMPANY OVERVIEW

Neo manufactures the building blocks of many modern technologies that enhance efficiency and sustainability. Neo's advanced industrial materials – magnetic powders, rare earth magnets, magnetic assemblies, specialty chemicals, metals, and alloys – are critical to the performance of many everyday products and emerging technologies. Neo's products fast-forward technologies for the net-zero transition. The business of Neo is organized along three segments: Magnequench, Chemicals & Oxides and Rare Metals. Neo is headquartered in Toronto, Ontario, Canada; with corporate offices in Greenwood Village, Colorado, United States; Singapore; and Beijing, China. Neo has a global platform that includes manufacturing facilities located in Canada, Estonia, China, Germany, Thailand and the United Kingdom, as well as a dedicated research and development center in Singapore.

CORE ACTIVITIES

Neo's activities span the full rare earth value chain, from separated oxides and compounds to finished magnets and engineered materials:

- Chemicals and Oxides produces separated light and heavy lanthanide products, advanced industrial materials, and water purification products.
- Magnequench leads globally in bonded NdFeB powders, magnets, and applications, and now produces sintered rare earth magnets in Europe.
- Rare Metals supplies critical materials including gallium, hafnium, and niobium.

MAIN PRODUCTS AND TECHNOLOGIES

- Bonded and sintered NdFeB magnetic powders, magnets, and assemblies
- Separated light and heavy rare earth oxides and salts
- Specialty chemicals for emission-control catalysts and water purification
- Rare metals: gallium, hafnium, niobium, tantalum, rhenium, and indium

Chemicals and Oxides products serve industrial catalysts, electronics, medical devices, lighting, and water purification.

Neo Performance Materials Ltd

RARE EARTH EXPERTISE

Neo's strategy is to build the most vertically integrated rare earth magnetics value chain in Europe:

- One of the only global players with a heavy-rare-earth-free magnet already in commercial use for EV traction motors.
- A secure, traceable supply of critical materials that reduces reliance on overseas sources.
- Processing that spans both light and heavy rare earths, from separation through finished, engineered applications.
- Europe's first mass-scale rare earth permanent magnet plant, in Narva, Estonia – 2,000 tonnes per year in Phase 1A, scaling to over 5,000 tonnes per year in Phase 1B.
- A heavy rare earth (HREE) solvent extraction line at Silmet, Estonia, producing Neo's first separated terbium and dysprosium process solutions – processed entirely in Europe.
- A multi-year partnership with Carester of France securing heavy rare earth oxides for magnet manufacturing, in exchange for recycled scrap processing and separation feedstock supply.

SUSTAINABILITY AND INNOVATION

Neo's materials enable a lower-carbon, increasingly electrified world. Its initiatives include:

- Sustainable manufacturing – Recycling and feedstock recovery reduce environmental impact across the supply chain.
- Sustainability reporting – An annual Sustainability Report on environmental, social, and governance performance, prepared in accordance with the GRI Standards.
- Products enabling sustainable technologies – Hybrid and electric vehicles, pollution control systems, high-efficiency appliances and pumps, energy-efficient lighting, and water purification.
- Circular economy – A non-binding memorandum of understanding with Cyclic Materials to recycle European magnet production scrap into mixed rare earth oxides for reuse in Neo's alloy and magnet manufacturing.
- Innovation partnerships – A multi-year research partnership with Tallinn University of Technology (TalTech) in Estonia applying AI and machine learning to rare earth separation and magnet manufacturing.
- Industry leadership – Membership in responsible-sourcing bodies including the Responsible Minerals Initiative; all five flagship rare earth facilities report through EcoVadis, with Silmet and Korat earning successive Gold Medals.

Permag LLC



Permag LLC

801 Innovation Dr
Elk Grove Village, IL 60007



United States

info@permag.com



www.permag.com



COMPANY OVERVIEW

Permag LLC is the only North American producer of samarium cobalt (SmCo) magnets and a global leader in high-performance magnetic solutions. Founded in 1971 to serve the market with high engineered solutions in magnets and magnets assemblies — the parent company of Dexter Magnetic Technologies, Electron Energy Corporation, and Magnetic Component Engineering — Permag LLC unites three industry pioneers under a single name. These companies are at the forefront of magnetic innovation, delivering precision-engineered solutions to critical vertical markets. Permag's group of companies brings decades of expertise in precision magnetism to offer customers a fully integrated solution, from rare-earth material expertise and production to magnetic design, advanced engineering, precision machining, and complex assemblies for critical industries. The company is headquartered in Elk Grove Village, Illinois, with additional manufacturing and engineering facilities in California, Pennsylvania, Minnesota, and Germany.

CORE ACTIVITIES

Permag's core activities span the entire magnetic value chain — from raw material sourcing and refining to alloying, magnet manufacturing, precision machining, and complex magnetic assembly. The company integrates engineering, material expertise, and reliable sourcing under one roof, solving the challenges of volatile supply chains, inconsistent material quality, and regulatory pressures. Its vertically integrated model enables tight quality oversight, unmatched traceability, and a stable, predictable supply of mission-critical magnetic materials.

Permag LLC

MAIN PRODUCTS AND TECHNOLOGIES

Permag's main products and technologies include:

- Samarium Cobalt (SmCo) Magnets
- Neodymium Iron Boron (NdFeB) Magnets
- Precision Magnetic Assemblies including guidance and navigation systems, actuation and control, sensing, power systems, radar, and secure communications.
- Motor Components such as rotors and stators for high-performance motor applications in aerospace, defense, medical, and industrial platforms
- Custom Coating Technologies for NdFeB magnets, providing superior corrosion protection and performance

RARE EARTH EXPERTISE

Permag's rare-earth expertise is anchored in its position as the only North American producer of SmCo magnets. SmCo's exceptional thermal stability, corrosion resistance, and radiation tolerance make it indispensable for aerospace, defense, space, and harsh industrial applications.

Key strengths include:

- Domestic production: Reduces geopolitical risk, shortens logistics routes, and supports robust, local manufacturing.
- End-to-end control: Permag controls the entire SmCo production process, ensuring a stable, predictable supply, tighter quality oversight, and unmatched traceability.
- Refining, alloying & powder production: Materials are refined, separated, and alloyed into precise compositions such as NdFeB and custom formulations. For SmCo, this is fully controlled domestically, enabling tight quality oversight and repeatability.



**Solvay**

Rue De Ransbeek, 310
1120 Brussels

**Belgique**

lama.itani@solvay.com



www.solvay.com



COMPANY OVERVIEW

Solvay is a leading chemical company with a heritage dating back to 1863 and founded on Ernest Solvay's innovative soda ash process. The company positions itself as an "Essential Chemistry" provider, delivering critical technologies that support everyday life and a wide range of industries. Beyond rare earths, Solvay operates across several strategic businesses, including Soda Ash and Bicarbonate, Silica, Peroxides or Coatis, solutions serving markets such as mobility, consumer goods, healthcare, energy, environmental services and industrial applications.

A pioneer in rare earth separation, with more than 75 years of experience, Solvay has developed world-leading capabilities in the separation, purification, recycling and formulation of rare earth elements. Today, the company serves customers worldwide and supports strategic markets including automotive, electronics, medical applications, glass polishing, energy transition and digital technologies.

CORE ACTIVITIES

Solvay's core activities span the entire rare earth value chain, from the separation and purification of rare earth elements to the production of high-purity oxides and formulations. The company's rare earth operations are centered on its La Rochelle facility in France. These activities complement Solvay's broader portfolio of advanced materials and chemical solutions, leveraging the Group's expertise in industrial processing, purification technologies, sustainability and circularity.

Solvay's rare earth activities include:

- **Separation and Purification:** Solvay separates rare earth elements into individual high purity oxides using advanced processing, separation, and formulation capabilities.
- **Rare Earths for Permanent Magnets:** In 2025, Solvay inaugurated a production line in La Rochelle, France, delivering rare earth materials for permanent magnets, essential components in electric vehicle motors, renewable energy, advanced electronics and defense systems.
- **Recycling and Circular Economy:** Solvay leverages its advanced chemical processing knowledge to develop and implement innovative rare earth recycling solutions, focusing on efficient extraction and purification.
- **Research, Innovation and Product Development:** Solvay continuously develops advanced rare earth formulations and processing technologies to support evolving customer needs across high-growth applications, including electronics, digital technologies and sustainable mobility.

MAIN PRODUCTS AND TECHNOLOGIES

Solvay delivers a broad portfolio of rare earth-based products and technologies supporting both established and emerging markets.

1. High-Purity Rare Earth Oxides and Formulations: Tailor-made rare earth products designed for demanding industrial applications and advanced technologies.
1. Materials for Permanent Magnets: Rare earth materials supporting the production of high-performance permanent magnets critical to e-mobility, renewable energy and electrification.
2. Automotive Catalysis Solutions: Rare earth products used in catalytic technologies serving the automotive industry.
3. Electronic and Medical Applications: High-performance rare earth materials enabling a wide range of electronic and healthcare technologies
4. Glass Polishing Technologies: Advanced rare earth-based polishing materials used in optical, precision glass and high-tech applications.

RARE EARTH EXPERTISE

Solvay has built an important historic expertise in Rare Earth Technologies and possesses unique industrial know-how and strategic assets in Europe. Key aspects of Solvay's expertise include:

1. Technology Leadership: Solvay pioneered liquid-liquid rare earth separation and continues to drive in separation, purification, recycling and formulation technologies.
2. More Than 75 Years of Expertise: The company has been processing and transforming rare earths for more than seven decades, serving a broad range of global industries.
3. Strategic European Hub: The La Rochelle facility represents a unique industrial platform in Europe and is central to the development of a competitive and resilient permanent magnet value chain.
4. Innovation for Future Markets: Solvay continues to develop solutions supporting emerging applications.

SUSTAINABILITY AND INNOVATION

Sustainability is at the heart of Solvay's rare earth strategy. The company is reinventing its production processes to support both the energy transition and the development of a more sustainable rare earth ecosystem in Europe. Key sustainability initiatives include:

1. Reduced Environmental Footprint: By 2030, the La Rochelle site aims to double production capacity while reducing CO₂ emissions by up to 40% and cutting water consumption by 50%.
2. Circular Economy: Solvay is advancing rare earth recycling, particularly through the recovery of materials from end-of-life magnets and other secondary resources.
3. Supporting Supply Chain Resilience: The company is helping build a robust, reliable and sustainable supply chain aligned with the objectives of the Critical Raw Materials Act sourcing rare earths from a diverse range of suppliers and recycled materials.
4. Biodiversity Stewardship: Alongside its growth ambitions, the La Rochelle project targets a 90% reduction in negative pressure on biodiversity.
5. REIA Membership: Solvay joined the Rare Earth Industry Association in 2023 to collaborate on building a sustainable and resilient rare earth industry.

Shin-Etsu Magnetics Europe GmbH

Shin-Etsu is a Japanese multinational chemical company established in 1926, and the world's largest manufacturer of semiconductor silicon and PVC. The company is a global leader in neodymium (Nd) magnets, and has also developed heavy-rare-earth-free magnet grades to reduce dependence on critical raw materials. Shin-Etsu operates a global production network with facilities in Japan, Vietnam, Philippines, Malaysia, and sales offices in the USA and Europe. The company is strongly committed to sustainability, recycling magnet powder from its manufacturing processes, and developing techniques to recycle rare-earth magnets from recovered air conditioners and hybrid cars.

The company contributes to the rare-earth value chain by ensuring a stable supply of high-quality rare-earth magnets and compounds through vertically controlled production, while its recycling initiatives create significant economic and social value.



Shin-Etsu Magnetics Europe GmbH

Gerbermuehlstr 7
60594 Frankfurt am Main

Germany

www.shinetsu.co.jp



Sector: Recycling



Critical Materials Recycling Inc
Cyclic Materials Inc
Nemesfem Kft
Okon Recycling
Orano
REEgen Inc
REEMAG LLC
Rocklink GmbH
Tusaar Corp

Critical Materials Recycling Inc



Critical Materials Recycling, Inc.

2121 Industrial Park Rd
Boone, IA 50036

United States

info@cmr-us.com
www.criticalmaterialsrecycling.com

Critical Materials Recycling (**CMR**) is a U.S.-based company headquartered in Boone, Iowa, that commercializes the patented Acid-Free Dissolution Recycling (ADR) technology, originally developed at the U.S. Department of Energy's Ames National Laboratory and exclusively licensed to CMR. CMR's core activity is the recovery of rare earth elements and critical materials from end-of-life electronics and magnet production waste, including hard disc drives, electric and hybrid vehicles, and decommissioned wind turbines. The ADR process is an environmentally friendly technology that selectively recovers rare earths without using acids or other harmful chemicals, achieving over 90% recovery from feedstocks without requiring pure magnets or pre-separation of shredded materials. Key products include mixed rare earth oxides, with the process also enabling recovery of base metals from waste streams. CMR is committed to establishing a secure, domestic U.S. supply chain to overcome geopolitical risks associated with overseas sourcing, supporting U.S.-based technology companies in wind energy, computer hardware, electric vehicles, and national defense applications.

Cyclic Materials Inc

Cyclic Materials Recycling Inc is building a circular supply of rare earth elements and other critical materials through the recycling of magnet-containing end-of-life products. With its proprietary rare earth recovery technology, the company efficiently recovers and refines high-purity recycled rare earth oxides, which are then returned to the manufacturing supply chain for new permanent magnets that are essential to automotive, AI, robotics, defense, electronics, energy, medical, industrial and other advanced technologies. With the successful opening of its new facility in Arizona, and the accelerated development of its South Carolina facility, the company is delivering rare earth and other critical materials to the market at commercial scale, and plans for continued expansion to create a secure, domestic, circular supply of rare earths. Learn more about Cyclic Materials at cyclicmaterials.com.



Cyclic Materials Inc.

Ste 400, 70 Bond St
Toronto, ON M5B 1X3

Canada

www.cyclicmaterials.earth



Nemesfem Kft

Nemesfém Kft. is a Hungarian company and a market leader in precious metal recycling, serving industries ranging from electronics and jewelry to numismatics.

Nemesfém's core activity is represented by the recovery of valuable metals from electronic waste and secondary raw materials, such as silver and gold, which are reintegrated back into the economic cycle.

The company's rare-earth expertise builds on its advanced hydrometallurgical capabilities, particularly ion exchange technology, which is especially effective for rare earth and precious metals. Key products include recycled precious metals and refined metal compounds for various industries.

Nemesfém is committed to sustainability and operates a recycling process that reduces the need for primary mining, conserves natural resources, and aligns with national sustainable development goals. The company contributes to the rare-earth value chain by developing environmentally friendly methods for extracting critical metals from secondary sources, thereby reducing reliance on primary mining.



Nemesfem Kft

Gábor Dénes krt.
2040 Budaörs



Hungary

info@nemesfem.com



www.nemesfem.com



Okon Recycling



Okon Recycling

5901 Botham Jean Blvd
Dallas, TX 75215

United States

purchasing@okonmetals.com

www.okonrecycling.com

Okon Recycling is one of North America's largest recyclers of scrap rare-earth neodymium permanent magnets and MRI magnets. Founded in 1909, Okon has over a century of experience in metal recycling.

One of Okon's core activities is the collection, processing, and recovery of rare-earth permanent magnets, offering recycling solutions for separated magnets as well as for assemblies containing NdFeB magnets. Okon Recycling is committed to closing the loop on magnet waste by recovering rare-earth magnets, minimizing reliance on destructive mining, lowering carbon footprints, and contributing to a more sustainable economy.



Orano SA

125 Av. de Paris
92320 Châtillon



France

orano.solutions@orano.group



www.orano.group



COMPANY OVERVIEW

Orano transforms nuclear materials so that they can be used to support the development of society, first and foremost in the field of energy. The French multinational company offers products and services with high added value throughout the entire nuclear fuel cycle, from raw materials to waste treatment. Its activities, from mining to dismantling, as well as in conversion, enrichment, recycling, logistics and engineering, contribute to the production of low carbon electricity. Orano and its 18,500 employees bring to bear their expertise and their mastery of cutting-edge technology, as well as their permanent search for innovation and unwavering dedication to safety, to serve their customers in France and abroad.

CORE ACTIVITIES

The expertise covers the whole nuclear fuel cycle. While the nuclear fuel cycle remains Orano's core business, the company has recently developed a range of new activities:

- Healthcare (Orano Med) with the development of a targeted therapies against cancer using a rare radioisotope derived from thorium.
- Production of cathode active materials (CAM) and R&D for their precursors (pCAM) as well as recycling of lithium-ion electric vehicle batteries,
- Process development for recycling and manufacturing of permanent magnets
- Process development for recovery of critical metals from industrial by-products

MAIN PRODUCTS AND TECHNOLOGIES

Orano's main products and technologies include:

- Nuclear fuel cycle products
- Medical stable isotopes
- Battery recycling outputs such as recovered cobalt, manganese, nickel...
- High-purity critical metals

RARE EARTH EXPERTISE

Orano's rare earth expertise is built on over 50 years of experience in hydrometallurgy, powder metallurgy and the development of extraction and purification processes.

- Permanent magnet recycling pilot line that focuses on a "short-loop" recycling process. Publicly funded consortia: Orano leads two consortia dedicated to accelerating the development of circular solutions for high-performance magnets: Magellan, funded by the French government, and Magnolia, funded by the European Union. Together, these initiatives bring nearly 20 partners
- Recovery of rare earths from industrial by-products : The EURO-TITAN project aims to extract titanium resources from waste streams generated during the production of alumina and titanium dioxide

SUSTAINABILITY AND INNOVATION

Orano is committed to sustainability and ESG principles, with a "Climate" priority included in its commitments and roadmap. The company has quantified its carbon footprint within the value chain since 2019, and its ESG performance has been recognised by several rating agencies, placing the group among the best in its category.

REEgen Inc

REEgen Inc. is a U.S.-based biomining startup founded in 2022. The company is pioneering the use of synthetic biology to create a clean, circular, and secure domestic supply chain for rare earth elements and other critical minerals.

REEgen's core activity is the recovery of rare earth elements from mineral feedstocks, with a particular focus on non-traditional, above-ground materials. The company's proprietary BioREEcover system uses genetically engineered bacteria to extract critical metals from industrial by-products and waste streams, including slag, e-waste, spent catalysts, coal ash, gypsum, and tailings. The technology enables cost-effective recovery while generating no significant hazardous waste, and can be applied as a drop-in replacement for acid leaching in traditional mining process flowsheets. The company has received significant government backing and aims to begin producing rare earth products for the U.S. supply chain in early 2027. REEgen is committed to sustainability, offering a low-impact alternative to conventional mining that reduces environmental harm, bypasses capital-intensive processes, and turns waste into value. The company supports a circular economy by recovering REEs from by-products of existing recycling industries.



REEgen

REEgen Inc.

95 Brown Rd
Ithaca, NY 14850

United States

reegen@reegen.tech
www.reegen.tech



REEMAG LLC



REEMAG LLC

1330 Avenue of the Americas,
Ste 23A, New York, NY 10019

United States

Info@reemag.net

www.reemag.net



REEMAG LLC is a United States rare earth technology company building a circular and resilient supply platform for NdFeB permanent magnets.

REEMAG's patented technology converts end-of-life magnets, manufacturing scrap, SWARF, e-waste and other magnet-containing feedstocks into reusable NdFeB material for the production of new high-performance permanent magnets.

Its proprietary chemical-free, dry process requires no conventional grinding or shredding and is designed to deliver a lower-cost, lower-energy pathway for recovering critical rare earth magnet materials.

REEMAG is advancing commercial partnerships across feedstock supply, recycling, magnet manufacturing and end-user markets, supporting the development of secure domestic and allied rare earth magnet supply chains.



Rocklink GmbH

Edith-Fürst-St 60
40219 Düsseldorf
Germany
info@rocklink.de
www.rocklink.de

Rocklink GmbH, based in Düsseldorf, Germany, engages in trading of compounds and metals as well as recycling of rare earths, nickel, cobalt, lithium and tungsten. Rocklink is a market leader in the collection, processing, and trading of rare-earth magnet and lithium-ion battery raw materials, handling over 20,000t per year across its Fine Metals & Chemicals and Rare Metals Recycling divisions.

Rocklink has provided recycling solutions for rare-earth magnets for over 20 years – covering scrap, dust, slag, and grinding slurry, from collection and dismantling to separation and recycling, at facilities in Europe, India, the Philippines and Korea. Rocklink offers recycling solutions for separated magnets and assemblies containing NdFeB, SmCo, and AlNiCo magnets. Its facility in India recovers battery raw materials (black mass, copper, aluminum) with over 98% efficiency.

Rocklink's recycling facilities are certified according to ISO 9001:2015 and ISO 14001:2015 standards and are regularly audited. Rocklink is also a registered collector, trader and broker of non-hazardous and hazardous waste in compliance with German and Dutch regulations.

Tusaar Corp

Tusaar Corp. is a Colorado-based technology company specializing in the recovery and purification of critical materials including rare earth elements from non-traditional and conventional feedstocks. Tusaar's proprietary carbon-based chromatography technology is designed to selectively separate, recover and purify targeted elements, and competing technologies, it is applicable to a broad range of feedstocks, including alloys, magnets, ceramics, coatings, mine waste, recycled fluorescent lamps, industrial waste, and other critical materials containing feedstock.

Tusaar's chromatography system carries the primary separation burden, allowing conventional chemical and downstream processing technologies to function with greater efficiency, selectivity, and yield. Its simplified operating profile combined with the ability to separate a wide variety of metals is a key advantage. The technology operates at ambient temperature and relatively low pressure and utilizes conventional acids and bases rather than complex chemicals. This approach reduces process complexity, energy consumption, capital requirements, and environmental impacts while producing high-purity metal salts that can require minimal downstream purification for direct industrial use.

Tusaar, currently focused on the strategic defense and energy sectors, is establishing a scalable, domestic pathway for the recovery and recycling of critical minerals that would otherwise remain in waste streams or require foreign processing. By converting industrial by-products and waste into valuable sources of rare earth elements, Tusaar's technology can help strengthen the U.S. critical-minerals supply chain, reduce reliance on foreign sources, and support a more resilient domestic materials ecosystem.



Tusaar Corp.

Unit A, 11625 Reed Ct
Broomfield, CO 80020

United States

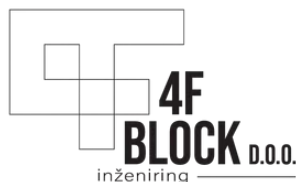
info@tusaar.com
www.tusaar.com

Sector: Service Provider



4F block
Argus Media Group
British Geological Survey
Circularise B.V.
CoTec Holdings Corp.
GreenMet
Hatch Ltd
IMAG Consulting
Japan Society of Newer Metals
JOGMEC
Pforzheim University
Ppm materials GmbH
TAM International LP
Tradium GmbH
Université de Liège
University of Birmingham
Valent Asset Management LLC

4FBlock



4FBlock

Branik 227

5295 Branik

Slovenia

info@4fblock.com
www.4fblock.com

Consultancy

4FBlock is a Slovenian engineering and equipment company supplying integrated hardware across the rare earth value chain from mixed rare earth carbonate (MREC) to finished sintered and bonded magnet parts.

It provides equipment for MREC dissolution, purification, solvent-extraction separation circuits, precipitation, filtration, drying, and calcination. The equipment portfolio also covers rare earth metallization, flake casting, hydrogen processing and outgassing, milling, inert powder handling, alignment and pressing, sintering, grain boundary diffusion, and bonded-magnet compounding.

As a single equipment-integration partner, 4FBlock can supply a complete greenfield production line or individual modular systems for integration into an existing facility. Each system is engineered and configured around the process flowsheet, operating recipe, and product specifications defined by the customer or its technology partner.

4FBlock's scope focuses on purpose-built hardware, automation, controls, and equipment integration for the corrosive, reactive, and oxygen-sensitive materials encountered in rare earth processing. The company also provides equipment factory acceptance testing, installation, commissioning, and technical support.

GreenMet

GreenMet is a Washington, D.C.-based firm that combines the expertise of former military leaders, seasoned government professionals, policy experts, and industry leaders to help clients navigate Washington and succeed in highly strategic sectors.

The firm provides strategic guidance and market intelligence to companies and projects in the critical minerals sector, helping them secure federal funding and build public-private partnerships. GreenMet has strong rare-earth expertise, demonstrated through its strategic partnership with Critical Metals Corp to develop the Tanbreez Project in Greenland, as well as its advisory alliance to advance domestic rare-earth and gallium production.

The firm is committed to securing long-term access to critical minerals for the United States and its allies, supporting responsible and scalable project development while engaging with local communities and governments.



GreenMet

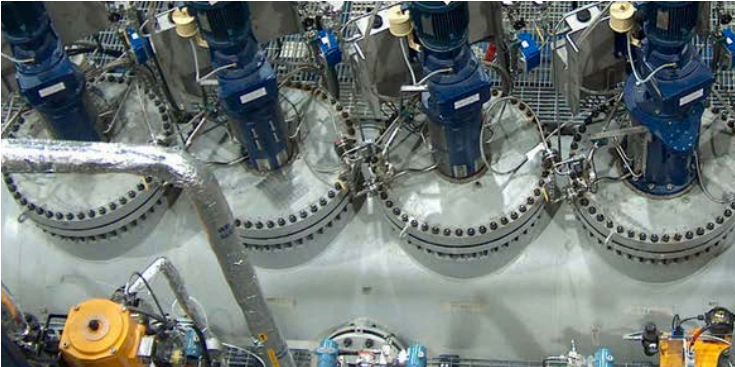
Ste 515, 1825 K St NW
Washington, DC 20006

United States

info@greenmet.com
www.greenmet.com

Consultancy

Hatch Ltd



HATCH

Hatch Ltd

Sheridan Science & Technology Park
2800 Speakman Dr
Mississauga ON L5K 2R7



Canada

Email

www.hatch.com



Consultancy

COMPANY OVERVIEW

Hatch Ltd. is a global multidisciplinary management, engineering, and development consultancy in mining and metals, infrastructure, and energy sectors. With a network of 11,000+ professionals in over 150 countries, the firm provides practical, innovative, and sustainable solutions across the metals and mining, energy, and infrastructure sectors. The company is passionately committed to the pursuit of a better world through positive change, and embraces its clients' visions as its own, partnering with them to develop smarter, more efficient, and innovative ideas. Hatch is a global engineering, project delivery, and professional services firm, responding quickly with solutions that are smarter, more efficient and innovative.

CORE ACTIVITIES

Hatch's core activities encompass the full project lifecycle, from early-stage studies and engineering to procurement, construction management, and project delivery. The company is a key partner for the development of complex mineral processing plants and critical minerals projects, with deep expertise in metallurgical processing, including hydrometallurgy, solvent extraction, and pyrometallurgy. With expertise in sustainable studies, asset building and operations, and industry-leading efficiencies, Hatch leverages methodologies, governance and systems that are unparalleled in the engineering space.

MAIN PRODUCTS AND TECHNOLOGIES

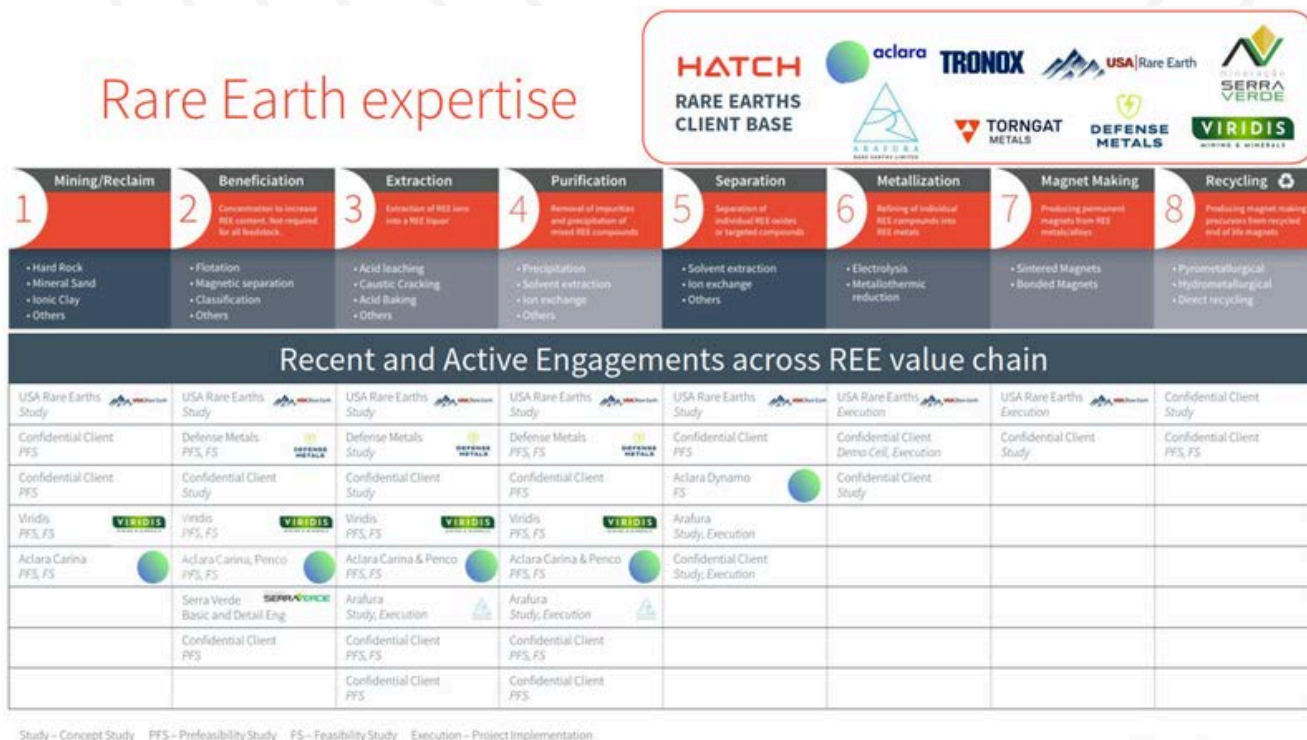
Hatch's main products and technologies include:

- Comprehensive engineering, procurement, and construction management (**EPCM**) services
- Metallurgical process development and optimization
- Technical studies, including Initial Assessments and Pre-Feasibility Studies
- Digital solutions and AI in mineral processing
- Battery material production solutions
- High Pressure Metallurgy (**HPM**)

Hatch Ltd

RARE EARTH EXPERTISE

Hatch has deep expertise in the rare-earth elements value chain, having helped clients develop rare-earth projects for over a decade. The company is currently working on several notable rare-earth projects at various stages of development:



SUSTAINABILITY AND INNOVATION

Hatch is committed to sustainability and innovation. The company acknowledges that a robust supply of minerals is essential for the production of renewable energy technologies. As the world transitions towards green energy, the demand for minerals is set to soar, posing both challenges and opportunities. Hatch is helping clients navigate these challenges and opportunities. Its practical solutions are designed to be safe, innovative, and sustainable.

Hatch produced a report for the Wilson Center detailing the technical requirements to build a domestic supply chain of critical minerals by processing polymetallic nodules within the United States and the broader North American continent to reduce the region's reliance on foreign processing and refining capabilities.

Hatch leverages its vast knowledge and experience in the energy and metals sectors to deliver sustainable solutions for mining operations that want to make a "clean break" from fossil fuel.



新金属協会

Japan Society of Newer Metals

Shibakoen Denki Bldg. 3F, 1-1-12,
Shibakoen, Minato-ku, Tokyo, 105-0011



Japan

info@jsnm.or.jp



www.jsnm.or.jp



Consultancy

COMPANY OVERVIEW

The Japan Society of Newer Metals (JSNM), is a Japanese industry association representing companies involved in the production and trade of "newer metals" – a category that includes rare earths, tantalum, silicon, compound semiconductors, and other advanced materials. The Society engages with the Japanese government on matters of supply chain resilience, economic security, and the stable supply of high-performance metal materials.

CORE ACTIVITIES

The Society's activities are organised around nine sectoral committees, including a dedicated Rare Earth Committee, as well as committees for Tantalum, Silicon, Compound Semiconductors, Zirconium, and Target materials. The Society's leadership engages directly with policymakers on issues such as the strengthening of supply chains for rare earth permanent magnets and other critical minerals, and the management of important technologies from an economic security perspective.

MAIN PRODUCTS AND TECHNOLOGIES

As an industry association, JSNM does not itself produce products but represents and publishes data on the materials within its members' scope. Its main outputs and areas of activity include:

- An annual publication of rare earth demand data by the Rare Earth Committee.
- Rare Earth Reference Publication
- Industry Standards for materials such as silicon
- Committee Activities covering rare earths, tantalum, silicon, compound semiconductors, zirconium, targets, beryllium, nuclear fuel processing, and rare earth magnet recycling.

SUSTAINABILITY AND INNOVATION

The Society's leadership has emphasised the importance of maximising the use of limited global resources and contributing to society through the supply of high-performance metal materials. The Society's engagement with government on supply chain resilience and technology management reflects a commitment to securing sustainable and reliable access to the materials essential for semiconductors, green transformation (GX), and advanced materials sectors.

IMAG CONSULTING

Founded in 2025, IMAG Consulting is an independent consultancy specializing in permanent magnets, magnetic systems, and their industrial applications, building on more than 30 years of industry experience.

IMAG combines scientific understanding, technical expertise, market insight, and hands-on industrial experience to help companies improve performance, reduce costs, secure supply, and bring magnetic technologies successfully to market.

IMAG supports projects from early-stage development through serial production, including material selection, magnetic system design and simulation, supplier sourcing and qualification, testing, magnetization, cost optimization, and supply chain risk management.

Particular focus is placed on rare-earth permanent magnets, alternative materials, supplier diversification, and robust sourcing strategies.

Across the permanent magnet value chain, IMAG supports industrial end-users, material suppliers, magnet manufacturers, and technology providers by identifying suitable technologies and market opportunities.

IMAG also provides market intelligence, intellectual property support, technical training, and development of innovative magnetic systems, turning magnetic expertise into competitive and scalable industrial solutions. Connecting technical capabilities with industrial needs helps customers accelerate development, strengthen supply resilience, and capture new opportunities.



IMAG CONSULTING SAS

1 rue beauregard,
70700 Bonnevent-Velloreille, 
France
richard.arlot@imag-consulting.com 
www.imag-consulting.com 

Consultancy 

Ppm Materials GmbH



ppm materials GmbH

Technologiepark Nabern
Seestr 28
73230 Kirchheim unter Teck
Germany

 info@ppm-materials.com
 www.permanent-magnet.biz

Consultancy 

Trading 

Ppm materials GmbH, founded in 2003, is a Germany-based company that specializes in innovative magnetic solutions. The company also operates an office, production and storage facility in Ningbo, China, and is led by a team of materials scientists, physicists, and electromechanical engineers. Leveraging this global presence, ppm materials GmbH offers magnet products sourced from China and, if requested, from alternative sources outside of China, such as India, Japan, and Europe. The company offers a variety of magnets, including ferrites, NdFeB and SmCo magnets, and plastic-bonded solutions, in addition to providing technical advice on system optimization.

The company's core activities encompass the development, production, and integration of magnetic components and systems, as well as consulting and system optimization. It manages the entire supply chain, from global procurement to quality assurance and warehousing, with direct local contact support through its branch Ningbo PPM Machinery Co.,Ltd in China.

ppm Materials has deep expertise in rare-earth permanent magnets, particularly NdFeB and SmCo materials, and leverages its technical competence to optimize magnet applications by reducing costs while ensuring magnetic stability, temperature resistance, corrosion resistance, and mechanical resilience.

Tradium GmbH

TRADIUM GmbH is a German raw materials trading company founded in Frankfurt am Main in 1999. The company's core activity is the sourcing, trading, storage and distribution of metallic raw materials, maintaining a large centrally located high-security warehouse and expanding its activities into refining and secondary raw materials.

TRADIUM has deep expertise in rare earths, having added them to its portfolio in 2007. TRADIUM trades all industrially relevant light and heavy rare earths and maintains a large stock of rare-earth oxides. The company's main products include over 40 metals in various delivery forms and qualities, covering minor metals (gallium, germanium, hafnium, indium, rhenium), rare earths (light and heavy rare-earth oxides), precious metals, and chemical compounds.

TRADIUM is committed to sustainability, emphasising careful handling of raw materials, transparency, and developing new ways to connect industrial demand with secondary material sources.



Tradium GmbH
Carl-Ulrich-Str 175
Neu-Isenburg, 63263
Germany
info@tradium.com
www.tradium.com



Trading

British Geological Survey



**British
Geological
Survey**

British Geological Survey

Keyworth Nottingham
NG12 5GG

United Kingdom

enquiries@bgs.ac.uk
www.bgs.ac.uk

Research

The British Geological Survey (**BGS**), founded in 1835, is a world-leading geological survey and global geoscience organization, focused on public-good science for government and research to understand earth and environmental processes. BGS is the UK's premier provider of objective and authoritative geoscientific data.

The BGS offers a range of services and information for businesses, policymakers and the general public, including commissioned research projects, geoscience data collection, and knowledge transfer. It also studies critical raw materials and vulnerability to supply disruption by monitoring global mineral production and trade, mapping supply chains, and analyzing markets.

The BGS has deep expertise in rare-earth elements, and conducts research across the entire rare-earth elements (**REE**) value chain from mineral deposit science to recycling and circular economy, including the EGRET research partnership which develops new geological models for REE deposits, the Global Rare Earth Element Mines, Deposits and Occurrences Map, research on UK REE potential, mapping technology metals in e-waste for recovery, and the MINERS research partnership on extracting critical metals as byproducts.

Circularise B.V.

Circularise B.V. is a Netherlands-based product traceability platform founded in 2016, that began at Delft University of Technology. Circularise specializes in compliance and sustainability across supply chains. With Circularise, companies can efficiently prepare for audits and meet regulatory requirements (i.e. Battery Passport, DPP), mass balance standards (like ISCC EU, ISCC PLUS), and other custom frameworks.

The platform enables end-to-end product traceability beyond tier-1 suppliers, supports digital product passports, generates audit-ready reports for streamlined compliance, and allows secure data collection, management, and sharing.

Circularise has deep expertise in rare-earth elements, demonstrated through its leadership of the CSyARES project (2022-2025), which aims to develop a blockchain-based traceability circular system to assess sustainability parameters of supply chains involving rare-earth materials. Circularise's Smart Questioning technology ensures sensitive information remains protected, providing both transparency and data security.



Circularise B.V.
Grote Marktstraat 49
2511 BH Den Haag
Netherlands
www.circularise.com

Research

JOGMEC



JOGMEC

Toranomon Twin Building 2-
10-1 Toranomon, Minato-ku,
Tokyo 105-0001

Japan

✉ mric@jogmec.go.jp
🌐 www.jogmec.go.jp

Research

Japan Organization for Metals and Energy Security (**JOGMEC**) is an incorporated administrative agency established through the integration of the Japan National Oil Corporation and the Metal Mining Agency of Japan, headquartered in Tokyo with the goal of securing stable and affordable resources and energy and realising a carbon-neutral society. The organisation's core activities span the entire metals and energy value chain, including geological surveys and exploration support, national stockpiling of rare metals as a safeguard against supply disruptions, technical development, and environmental protection. JOGMEC has deep rare earth expertise, particularly in heavy rare earths. As a government agency, JOGMEC delivers financial support through equity capital and liability guarantees, geological and technical expertise, and national stockpiles of rare metals. The organisation is committed to sustainability, supporting projects that contribute to reducing environmental footprints and advancing the responsible development of resources.

Pforzheim University



Pforzheim University

Tiefenbronner Str 65
75175 Pforzheim

Germany

info@hs-pforzheim.de
www.hs-pforzheim.de



Research

Pforzheim University is a German university of applied sciences with a mission built on interdisciplinary, responsible, international, personal, practical, and innovative principles. The university maintains strong ties with business and industry, emphasizing practical, application-oriented education and research, with research activities. A central focus lies in the field of rare earths, particularly rare-earth permanent magnets, through its Institute for Precious and Technology Metals (STI), which develops new production processes for high-precision permanent magnets for sensor, motor and generator applications based on neodymium, with a strong focus on using recycled rare earths from electronic scrap. The university coordinates and participates in major EU-funded projects: REEsilience, SUSMAGPRO, and MaXycle.

Université de Liège

Georesources, Mineral Engineering and Extractive Metallurgy (**GeMMe**) is a research group at the University of Liège that focuses on the responsible sourcing and processing of raw materials for future generations. GeMMe's missions are to educate creative and open-minded engineers, unlock valuable resources from both the earth's crust and urban mines, develop efficient processes for the recovery of metals and minerals, and innovate for a more sustainable and circular economy. GeMMe has deep expertise in the rare earth elements value chain, particularly in the recycling of rare-earth permanent magnets, and is a founding partner of Reverse Metallurgy, a major Belgian circular economy project focused on metals. The group participates in the CISTEMEEC regional project and leads WP4 on sourcing in the EU HORIZON MAGELLAN project. Moreover, the GeMMe is an active partner of the EU HORIZON PERMANET project, notably in WP4 developed under the leadership of Solvay. The group is also the coordinator of the EMerald master in Georesources Engineering, an Erasmus Mundus and EIT-labelled programme.



Université de Liège

Off.9, Bldg B52 (Sart Tilman)
All. de la Découverte 13
4000 Liège

Belgium

gemme@uliege.be
www.gemme.uliege.be

Research



University of Birmingham



UNIVERSITY OF
BIRMINGHAM

University of Birmingham

Edgbaston
Birmingham B15 2TT

United Kingdom

✉ s.p.king@bham.ac.uk
🌐 www.birmingham.ac.uk



Research

The Birmingham Centre for Strategic Elements and Critical Materials (**BCSECM**) is a collection of academics and professionals based at the University of Birmingham with expertise in recycling, recovery, processing and manufacturing of critical materials and other related materials. BCSECM has a focus on Rare Earth Magnets, Energy Materials (Lithium-Ion batteries etc) and other related materials such as Platinum Group Metals and plastics etc. BCSECM developed IP around these materials and piloted and commercialized these technologies, in some cases developing commercial scale plants which have been rolled out internationally e.g. our Rare Earth Magnet Recycling, launched in January 2026.

BCSECM engages with policy makers, governmental departments, skills engagement, lifecycle analysis etc. and has legal considerations built into the centre courtesy of the Birmingham Law School.

BCSECM has a wide range of research projects and hubs, all of which focus on critical materials but will approach different challenges from different angles, effectively enabling the centre to solve industrial challenges with efficient and economic solutions, including automation and application of cross sector learning.

Argus Media Group

Argus Media Group is the leading independent provider of market intelligence to the global energy and commodity markets. Argus Media offers essential price assessments, news, analytics, consulting services, data science tools and industry conferences to illuminate complex and opaque commodity markets.

Headquartered in London with 1,500 staff, Argus is an independent media organisation with 32 offices in the world's principal commodity trading hubs.

Companies, trading firms and governments in 160 countries around the world trust Argus data to make decisions, analyze situations, manage risk, facilitate trading and for long-term planning. Argus prices are used as trusted benchmarks around the world for pricing transportation, commodities and energy.

Founded in 1970, Argus remains a privately held UK-registered company owned by employee shareholders and global growth equity firm General Atlantic.



Argus Media Group

Lacon House

84 Theobald's Road,

London, WC1X 8NL

United Kingdom

press@argusmedia.com

www.argusmedia.com



Intelligence

CoTec Holdings Corp



CoTec Holdings Corp.

Ste 428, 755 Burrard St
Vancouver, BC, V6Z 1X

Canada

info@cotec.ca
www.cotec.ca

Investment

CoTec Holdings Corp. is a Canada-based next-generation resource company focused on transforming undervalued mineral assets through the deployment of breakthrough extraction and processing technologies, with investments in six transformative technologies and three mineral assets across rare earths, iron ore, and copper. CoTec's core activities centre on acquiring stakes in disruptive technologies and applying them to majority-owned mineral assets to unlock their full economic potential. The company has deep rare-earth expertise through its strategic partnership with Maginito Limited and its investment in HyProMag, gaining exposure to the patented Hydrogen Processing of Magnet Scrap (**HPMS**) technology developed at the University of Birmingham, which extracts and demagnetizes NdFeB alloy powders from scrap magnets. Beyond rare earths, CoTec's portfolio includes the Lac Jeannine Iron Tailings Project in Quebec, interest in MagIron, and an investment in Binding Solutions Limited for cold bonding technology. CoTec is committed to sustainability, targeting low-grade deposits and legacy stockpiles with dramatically reduced water and energy usage.

Valent Asset Management LLC



Valent Asset Management LLC is a New York City-based commodity hedge fund management company founded in June 2019. Valent is registered with the CFTC as a commodity trading advisor and is a member of the NFA.

Valent Asset Management LLC

405 Lexington Ave, Ste 3101
New York NY 10174

United States

ir@valentassetmgmt.com
www.valentassetmgmt.com

Investment

TAM International LP

TAM International LP is a Canada-based logistics provider established in 2004, and offers full-service expertise in the global transportation of radioactive materials and other high-consequence cargo. TAM International has a firsthand understanding of the nuclear and rare earth industries and a unique perspective on the processes and regulations related to handling radioactive materials.

TAM International's core activities center on end-to-end radioactive material transportation services, including nuclear front-end logistics and nuclear back-end logistics, as well as global logistics consulting. The company has built specific expertise in NORM and rare-earth logistics, as certain rare-earth ore deposits contain radioactive material requiring logistics expertise that few providers possess, enabling clients to transport individual isotopes or large charter shipments. TAM International operates from its head office in Saskatoon with additional offices and a global network of partners across 20 countries.



TAM International LP

1020, 606 Spadina Crescent E 
Saskatoon, SK S7K 3H1

Canada

www.tamintl.ca 

Transport 

About **REIA**

Reports
Projects
Publications
Events

Reports

REIA keeps its members informed with regular, in-depth reports covering the rare earth industry worldwide. Our quarterly Rare Earth Market Reports provide timely analysis of global market trends, export dynamics, and the performance of listed companies across the value chain. Complementing these, the China Rare Earth Information series - shared with members several times a year - offers coverage of the top scientific and industry developments in China, reviews of technological advances, and export market analysis for key products such as lanthanum and cerium.



Rare Earth Industry Association Market Report 2025

presented by



Together, these two report series give members up-to-date market intelligence to support their strategic decisions.

Projects

P1

2022 - 2024

IRTC

*International Round Table on
Materials Criticality*

Criticality & Risk Assessment

2022 - 2024

P2

CSyARES

*Circular System for Assessing
Rare Earth Sustainability*

Sustainability & LCA

P3

2022 - 2025

ONTO-DESIDE

*Ontology-based DEcentralised
SIDE Data Exchange*

Digitalisation & Traceability

2022 - 2026

P4

REEsilience

*Resilient & Sustainable
REE Supply Chains*

Recycling & Supply Chain Resilience

P5

2024 - 2027

SCRREEN

*Solutions for CRITICAL Raw materials
– A European Expert Network*

Market Intelligence & Policy Support

*For more information, contact:
Projects@global-reia.org*

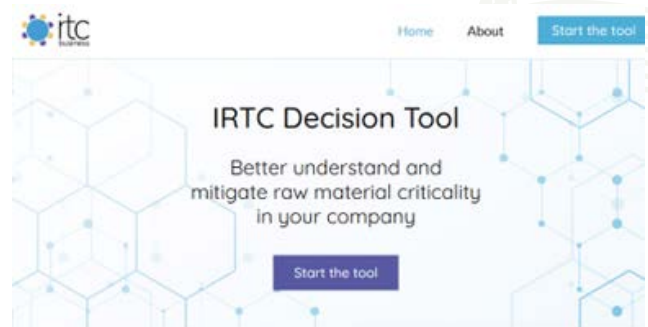
Projects



How do you assess a material's criticality, when industry, governments, and researchers all define it differently?

IRTC exists to bridge those perspectives, delivering three concrete outputs: an annual international conference bringing together experts on raw material criticality, an ongoing certified training programme in criticality assessment and risk management, and a web-based decision-support tool that helps companies evaluate their own supply chain risks.

REIA contributed directly to the conference programme - organising sessions focused on rare earths - and supported the development of training materials by feeding in real industry expertise and use cases.



About the IRTC Project

The International Round Table on Materials Criticality, IRTC, is an international network of experts in Critical Raw Materials. The first phase of the project (2018 – 2020) laid the international network via the organization of Round Table conferences Vancouver (Canada), Tokyo (Japan), and San

A screenshot of the IRTC website's training announcement. The header has the ITC logo and navigation links: ABOUT IRTC, ROUND TABLES, CONFERENCE, WEBINARS, TRAINING, PUBLICATIONS, BLOG, CONTACT, and a search icon. The main banner features a periodic table background with the text 'ONLINE TRAINING JUNE/JULY 2026'. Below this, the title 'Join the IRTC Basic Training and Become a Raw Materials Risk Manager' is displayed. The dates 'June 29 – July 2, 2026 | Each day from 9.30-12.15 CET' and the fee '700 € regular fee, 560 € for (PhD) students and holders of the title European Geologist (EuroGeol)' are listed. A small photo shows a group of people in a meeting. At the bottom, it asks 'Are you a researcher, professional or government official and want to understand'.



IRTC Website

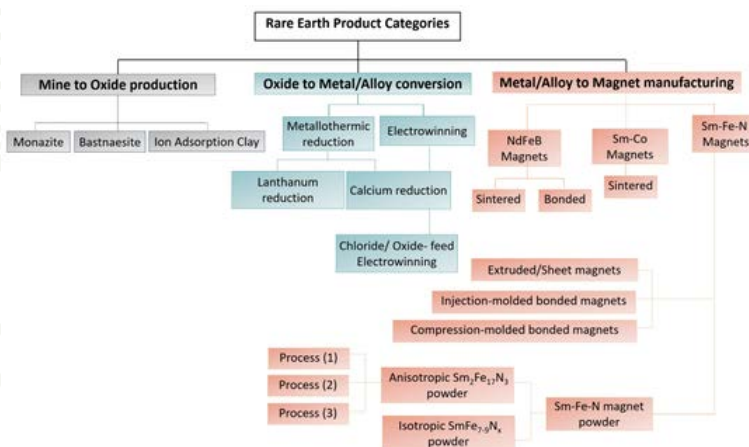
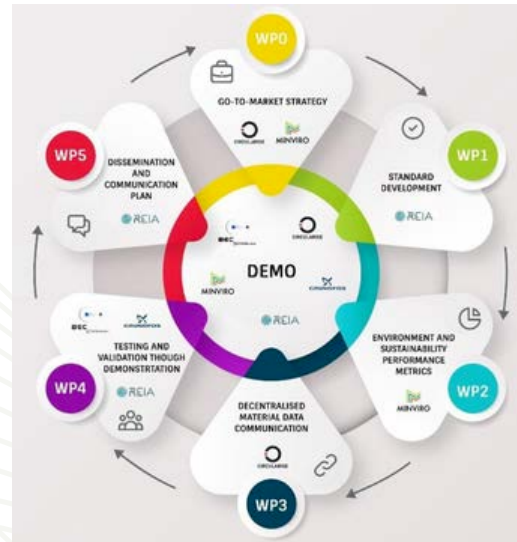
Projects



How do you prove a rare earth product is sustainable, when every company measures it differently?

CSyARES set out to fix that. Within a five-partner consortium, REIA took on two roles at once - Work Package Leader and Task Leader - steering the project's communication and dissemination while leading the development of its most lasting output: the Rare Earth Product Category Rules (PCR), published in January 2024.

The PCR gives the industry something it never had before: a common framework for conducting Life Cycle Assessments, covering 16 product categories across the value chain - from oxide production, through metal and alloy production, to magnet manufacturing. For each category, it defines clear system boundaries and the input/output data companies need to track, backed by process flow diagrams that map the entire rare earth supply chain from end to end.



Rare Earth
PCR

Scan the QR code to access the PCR, available on our website.

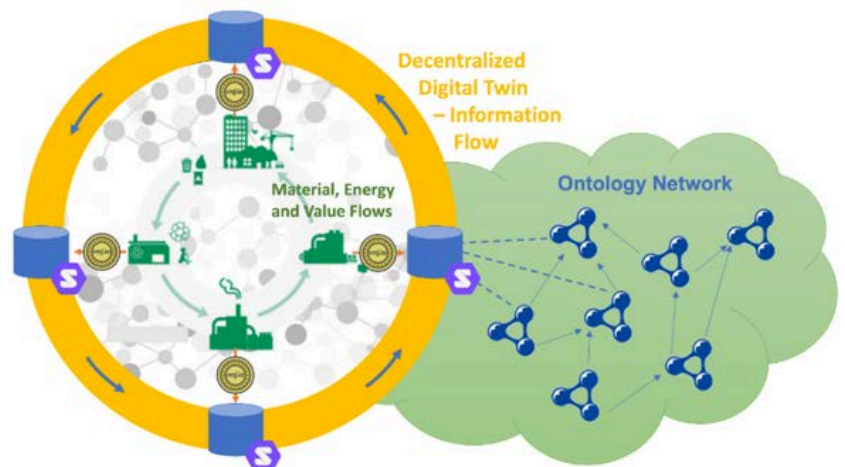
Projects



How do you share supply chain data, when every company speaks a different digital language?

The project developed common data standards and digital tools to make circular value chains interoperable - tested and validated across three real industrial use cases: textiles, construction materials, and electronics. REIA represented the rare earth industry within the electronics use case, contributing industrial input and drawing on REIA members' direct experience with rare earth magnets used in electronic products.

Its flagship output, CEON - the Circular Economy Ontology Network - provides a shared vocabulary for describing materials, products, and processes across industries, making data finally easy to exchange and understand. The project concluded in 2025, and its tools remain available to any organisation working on digital traceability and circularity.



Project Use Cases



Fibre recycling

Cellulose fibres are recycled into components for high-performance shoes



Floor tile remanufacturing

Developing a take-back system for floor tile refurbishment and remanufacturing



Rare earth retrieval

Rare earth elements in speaker magnets need to be traced and retrieved at end of life



Onto-Deside Website

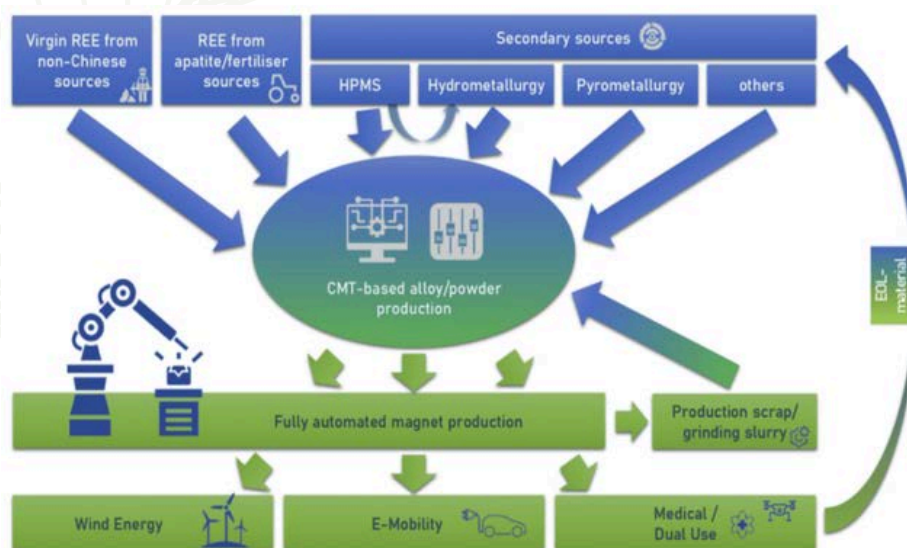
Projects



How do you build a resilient magnet supply chain, when almost none of it is recycled in Europe?

Most research projects stop at a report. REEsilience didn't. Its standout achievement was scaling up HPMS (Hydrogen Processing of Magnet Scrap) - a short-loop recycling technology - into a real, functioning industry through HyProMag, with recycling and manufacturing facilities now operating in both the UK and Germany.

This is industrial-scale recycling of rare earth magnets, in production today, directly reducing Europe's dependence on primary raw material supply. REIA's role centered on communication and dissemination, stakeholder engagement, and sustainability-related activities - keeping industry, partners, and the public connected to the project's progress and supporting knowledge exchange throughout.



REEsilience
website

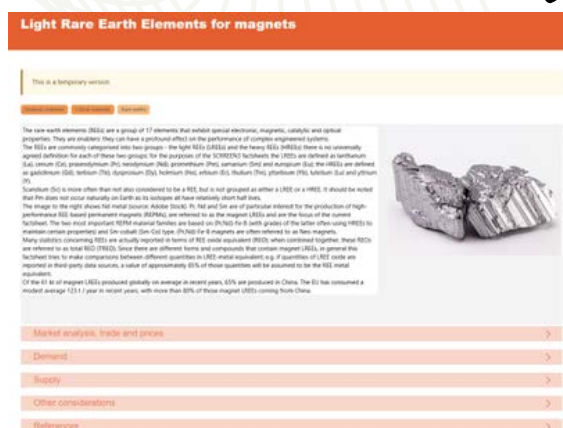
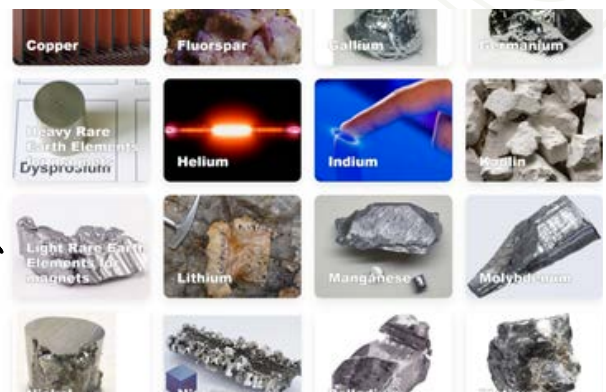
Projects



How do you shape sound raw materials policy, when reliable, comparable data is so hard to find?

As part of the European Commission's expert network on critical raw materials (CRMs), the project builds, maintains and improve data, statistics, and foresight analysis to support EU CRM policy-making.

REIA leads the project's Rare Earth Elements Work Package, coordinating both the industry engagement and the development of dedicated rare earth fact sheets - including Lanthanum, Cerium, Light Rare Earth Elements for Magnets, and other key materials. Each fact sheet covers market developments, trade and pricing, supply and demand, applications, and sustainability and recycling considerations - and every one is stress-tested through validation workshops with external experts and representatives from the European Commission's DG GROW.



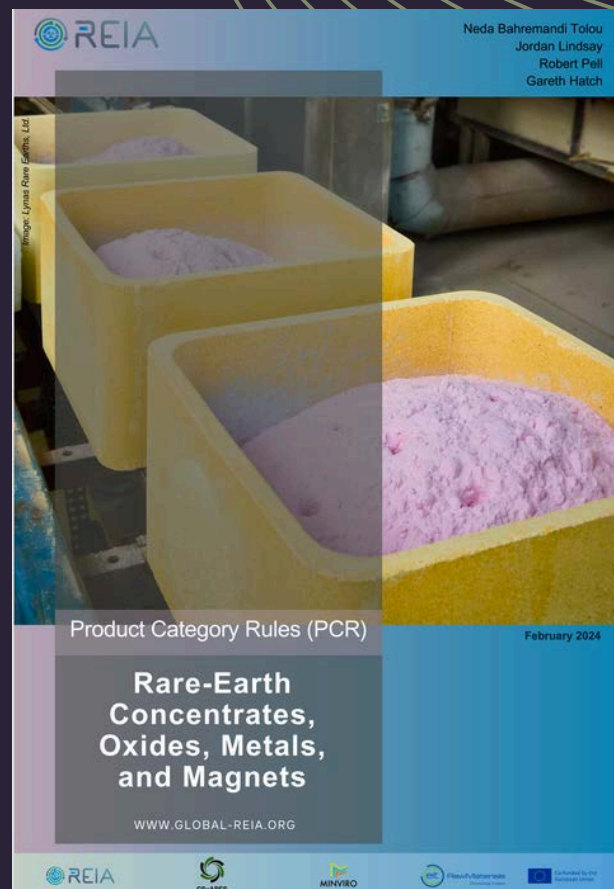
To learn more about the SCRREEN factsheet, please scan the QR code, which will lead you directly to the SCRREEN website, where the factsheet is available.



SCRREEN
factsheet

Publications

Beyond its regular reports, REIA produces white papers, position papers, and technical standards that shape best practice across the rare earth value chain. Central to this work are the Rare Earth Product Category Rules (PCR), developed through the CSyARES project and published by EPD International - a common methodology for conducting Life Cycle Assessments across 16 product categories, from concentrates and oxides to metals and magnets. REIA also publishes position papers on key policy developments, such as its perspectives on the EU's proposed Rare Earths Stockpiling and Joint Sourcing through the Critical Raw Materials Centre, as well as thought pieces from its Advisory Board on challenges facing the sector, including the growing importance of downstream engagement. These publications reflect REIA's role as a trusted technical and policy voice for the industry.



Events

Throughout the year, REIA brings its members and the wider rare earth community together through webinars, workshops, and industry events. Our flagship Annual Conference and General Assembly gathers stakeholders from across the value chain to discuss market developments, technological innovation, regulatory issues, and circular economy strategies.



Partner Event



Webinar



Conference

REIA also hosts regular webinars on topics ranging from market outlooks and geo-economics to lifecycle assessment methodology, and takes part in conferences and partner events worldwide - from specialised trade fairs to sector conferences - giving members visibility and direct access to key industry players. These gatherings offer valuable opportunities to network, exchange expertise, and stay ahead of the trends shaping the global rare earth industry.

Rare Earth Industry Association



Info@global-reia.org
www.global-reia.org

