

Técnicas Reunidas

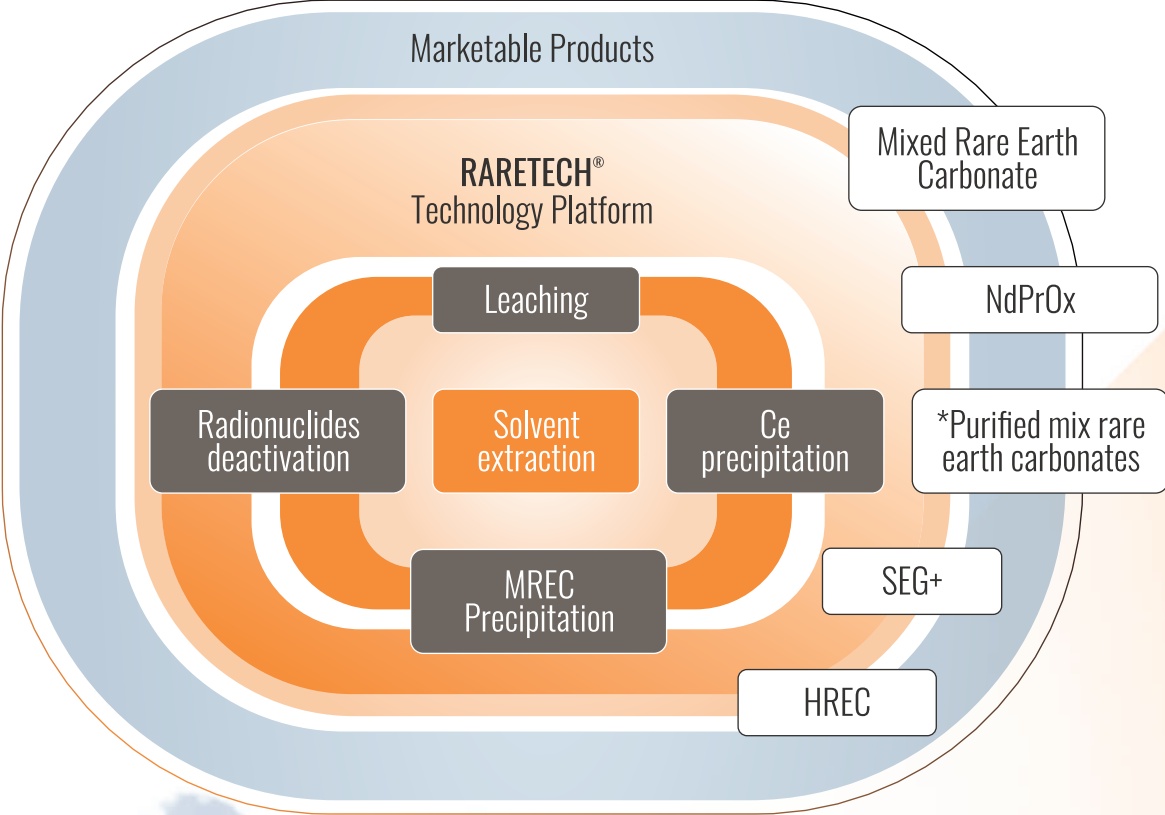
Técnicas Reunidas is a leading international engineering and industrial plant construction company that, through its Proprietary Technology Development Division (PTDD), develops and commercializes technologies focused on **metal recovery, critical raw materials in a circular economy framework, and industrial decarbonization.**

Técnicas Reunidas acts as both technology licensor and engineering partner, supporting industrial projects from concept development to commissioning through an integrated technology and engineering approach



We offer:

- Technology package:
 - License
 - Advanced Basic Engineering Design (ABED)
 - Proprietary Equipment
 - Technology guarantees
- Complete engineering procurement and construction of industrial project.



NdPrOx: Neodymium-Praseodymium oxide
SEG+: Samarium, Europium, Gadolinium, Dysprosium, Terbium
HREC: Heavy Rare Earth Carbonates
MREC: Mixed Rare Earth Carbonate
*Cerium and Lanthanum removed from MREC



Solution framework

- 01** Our proven technology platform transforms a wide range of raw materials into highly valuable, market-ready products, delivering tailored solutions that precisely meet customer specifications.
- 02** Solvent extraction is the cornerstone of our process, enabling the production of high-purity materials that fully comply with the stringent quality requirements of REE-oxide off-takers.
- 03** There is no "one-size-fits-all" RARETECH® process, the key specifications and objectives of each industrial project have a huge influence on the design of the best possible process configuration and thus, on the economics.
- 04** Ready-to-market solution





TECNICAS REUNIDAS

TR / PROPRIETARY TECHNOLOGY DEVELOPMENT DIVISION

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RARETECH®:

Is a proprietary and patented technology developed by **Técnicas Reunidas** for the **recovery, separation, and refining of rare earth elements (REEs)** from both **primary ores and secondary sources**.

RARETECH® integrates advanced hydrometallurgical operations for selective leaching, purification, and refining through two alternative routes:

01 **Precipitation route** ►
production of Mixed Rare Earth Carbonate (MREC)

02 **Solvent Extraction (SX) route** ►
production of high-purity REE oxides, removing Ce, La and radioactive species.



Key advantages of RARETECH®:

- 01** Validated in-house solution using know-how and experience in Leaching and Solvent Extraction (SX) to produce NdPrOx, a high-value product.
- 02** High REE recovery yield even from low-grade feeds.
- 03** Efficient removal of impurities (<1 %) and radioactive species.
- 04** Highly flexible process at soft operational conditions.



**RARE
TECH** **TR**

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