

Rare-Earth Metals Market worth \$22.94 billion by 2030, growing at a CAGR of 10.37% - Exclusive Report by 360iResearch

The Global Rare-Earth Metals Market to grow from USD 10.41 billion in 2022 to USD 22.94 billion by 2030, at a CAGR of 10.37%.

PUNE, MAHARASHTRA, INDIA ,
December 5, 2023 /EINPresswire.com/
-- The "[Rare-Earth Metals Market](#) by Type (Cerium Oxide, Dysprosium Oxide, Europium Oxide), Application (Catalysts, Ceramics, Glass Additives) - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.

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The rare-earth metals market consists of a global network of stakeholders engaged in the exploration, mining, refining, and sale of a group of seventeen metallic elements. These elements are critical in the manufacture of a wide range of high-technology devices, renewable energy systems, and military applications due to their unique magnetic, luminescent, and electrochemical properties. Rare-earth metals find extensive use in various sectors. Key applications include the production of permanent magnets for wind turbines and electric vehicle motors, catalysts in the petrochemical industry, phosphors in color television and flat panel displays, and various military applications, including jet fighter engines and missile guidance systems. End-users span across numerous industries, such as electronics, automotive, renewable energy, and defense. The market growth is influenced by the escalating demand for advanced electronic products, the burgeoning electric vehicle market, and the rising adoption of



clean energy systems. However, the challenges including the complex extraction process, environmental concerns, and the geopolitically concentrated reserves, heighten supply risk. Recent advancements present opportunities in the market for rare-earth metals. These advancements include the development of sustainable extraction technologies, recycling techniques to recover rare earths from electronic waste, and exploration efforts in untapped regions to diversify the supply chain and reduce geopolitical risks.

Type: Growing use of cerium oxide in semiconductor production

Cerium oxide is used widely as a polishing agent for glass, semiconductors, and ceramics due to its exceptional hardness and high refractive index. Dysprosium oxide (Dy_2O_3) is essential in producing permanent magnets with high coercivity, making it suitable for electric vehicles, wind turbines, and other high-performance applications. Europium oxide (Eu_2O_3) is primarily used as a phosphor for red and blue color displays in televisions, computers, and smartphones. Gadolinium oxide (Gd_2O_3) is a neutron absorber in nuclear reactors and a contrast agent for magnetic resonance imaging (MRI) diagnostics. Lanthanum oxide (La_2O_3) is mainly used in producing nickel-metal hydride batteries for hybrid electric vehicles and as an optical glass additive to enhance light transmission properties. Neodymium oxide (Nd_2O_3) is crucial for manufacturing high-strength permanent magnets in electric vehicles, wind turbines, and consumer electronics. Praseodymium oxide (Pr_6O_{11}) is used in permanent magnets, aircraft engines, and catalytic converters due to its excellent magnetic and thermal properties. Samarium oxide (Sm_2O_3) is used in samarium-cobalt magnets for aerospace, defense, and medical applications. Terbium oxide (Tb_4O_7) is vital in the production of green phosphors, used in display technologies and energy-efficient solid-state lighting systems.

Application: Higher consumption of metal alloys with expansion of manufacturing sector

Rare-earth metals enhance the performance of various chemical reactions and are widely used as catalysts due to their unique chemical properties. They are instrumental in petroleum refining, automotive emission control, and chemical synthesis applications. Ceramics play a vital role in several applications and utilize rare-earth metals for their superior thermal stability, corrosion resistance, and high-temperature performance. These materials enhance the mechanical properties of ceramic products such as capacitors, sensors, and piezoelectric devices. Glass additives are a widely preferred application for rare-earth elements due to their ability to modify glass properties such as coloration, UV absorption, and refractive index. Rare-earth metals play a crucial role in glass polishing applications owing to their exceptional abrasive characteristics that help smoothen glass surfaces efficiently without affecting their optical qualities. Metal alloys benefit from adding rare-earth metals as they enhance mechanical properties, including strength, flexibility, and corrosion resistance. These alloys find applications in various industries, such as automotive, aerospace, and energy production (wind turbine blades). Rare-earth permanent magnets are essential in several modern technologies, including electric vehicles (EVs), wind turbines, and consumer electronics, owing to their high magnetic strength and energy efficiency capabilities. Rare-earth phosphors are widely used in lighting solutions (LEDs), display technologies (TVs & monitors), medical imaging devices (X-ray systems), and security applications (banknotes) due to their superior luminescent properties.

Regional Insights:

The Asia-Pacific region includes abundant mineral resources, which subsequently presents opportunities for rare-earth metal market vendors to extract and separate valuable minerals from complex ore deposits efficiently. China is the largest producer of rare-earth metals, accounting for the majority of global output, which gives it significant influence over the market. Japan and India have a noteworthy demand for rare-earth elements due to their advanced technological and industrial sectors. Consumers in Asia-Pacific primarily utilize rare-earth metals for electronics, renewable energy technologies, and automotive industries. Additionally, market vendors from Europe and the Americas are continuously making efforts to adopt technologies to develop rare earth metals from electronic waste, reduce the environmental impact of operations, and optimize resource utilization, creating a platform for the rare-earth elements market. The U.S. Geological Survey reported that domestic production of rare-earth elements increased by 44% from 2020 to 2021. The presence of rare-earth metals and native regional players contributes to the market growth in the Americas.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Rare-Earth Metals Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Rare-Earth Metals Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Rare-Earth Metals Market, highlighting leading vendors and their innovative profiles. These include ABx Limited, Alkane Resources Ltd., Aluminium Corporation of China Limited, American Elements, American Rare Earths Limited, Arafura Resources Ltd., Australian Rare Earths Limited, Avalon Advanced Materials Inc., Canada Rare Earth Corporation, China Non-ferrous Metal Industry's Foreign Engineering and Construction Co., Ltd., China Northern Rare Earth (Group) High-Tech Co., Ltd., China Rare Earth Group Resources Technology Co., Ltd., China Rare Earth Holdings Limited, Encounter Resources Limited, Energy Fuels Inc., Energy Transition Minerals Ltd., Enova Mining

Limited, Eutectix, LLC, Frontier Rare Earths, Fujian Changting Golden Dragon Rare-Earth Co., Ltd., GTS German Trading Service GmbH, Hebei Suoyi New Material Technology Co., Ltd., HEFA Rare Earth Canada Ltd., Iluka Resources Limited, JL MAG Rare-Earth Co., Ltd., Krakatoa Resources Ltd., Lynas Malaysia Sdn Bhd, Medallion Resources Ltd., Mitsubishi Corporation RtM Japan Ltd., MP Materials Corp., Neo Performance Materials, NioCorp Development Ltd., Norwegian company REEtec, Otto Chemie Pvt. Ltd., Rare Element Resources Ltd., Shin-Etsu Chemical Co., Ltd., Solvay SA, Texas Mineral Resources Corp., and Ucore Rare Metals Inc..

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Market Segmentation & Coverage:

This research report categorizes the Rare-Earth Metals Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Type, market is studied across Cerium Oxide, Dysprosium Oxide, Europium Oxide, Gadolinium Oxide, Lanthanum Oxide, Neodymium Oxide, Praseodymium Oxide, Samarium Oxide, Terbium Oxide, and Yttrium Oxide. The Cerium Oxide commanded largest market share of 19.34% in 2022, followed by Yttrium Oxide.

Based on Application, market is studied across Catalysts, Ceramics, Glass Additives, Glass Polishing, Metal Alloys, Permanent Magnets, and Phosphors. The Metal Alloys commanded largest market share of 21.65% in 2022, followed by Permanent Magnets.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across Alaska, Arizona, California, Georgia, Michigan, Missouri, Montana, Nevada, North Dakota, Texas, West Virginia, and Wyoming. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, United Arab Emirates, and United Kingdom. The Asia-Pacific commanded largest market share of 56.12% in 2022, followed by Europe, Middle East & Africa.

Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights

6. Rare-Earth Metals Market, by Type
7. Rare-Earth Metals Market, by Application
8. Americas Rare-Earth Metals Market
9. Asia-Pacific Rare-Earth Metals Market
10. Europe, Middle East & Africa Rare-Earth Metals Market
11. Competitive Landscape
12. Competitive Portfolio
13. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Rare-Earth Metals Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Rare-Earth Metals Market?
3. What is the competitive strategic window for opportunities in the Rare-Earth Metals Market?
4. What are the technology trends and regulatory frameworks in the Rare-Earth Metals Market?
5. What is the market share of the leading vendors in the Rare-Earth Metals Market?
6. What modes and strategic moves are considered suitable for entering the Rare-Earth Metals Market?

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