

The Rare Earths Market 2012-2022

<https://marketpublishers.com/r/R9ED04D9FC2EN.html>

Date: June 2012

Pages: 265

Price: US\$ 2,633.00 (Single User License)

ID: R9ED04D9FC2EN

Abstracts

Rare earths are also known as technology metal, because without the use of rare earths it would not be possible to make the latest digital technology products. Although rare earths are used in small quantities, their role is pivotal. Unlike other elements, the rare earths industry is dominated by China, which accounted for 95.3% of the total global production. However, the global market for rare earths is expected to be \$18.3bn in 2012.

It is expected that the global rare earths market value will decline during the forecast period due to falling prices of rare earths. The recent downward spiral in the rare earths prices will continue during the forecast period.

Having said that, Visiongain understands that in case of any increase in the Chinese rare earths' export quota or delays in production from the planned rare earths projects, this will send the prices of rare earths upward, and so the market value.

The report contains 304 tables, charts and graphs that add visual analysis in order to explain developing trends within the rare earths market. Visiongain provides forecasts for the period 2012-2022 in terms of value (US\$) and tonnages for the global rare earths market, as well as for eight end-use sectors (catalysts, glass, polishing, metal alloys, magnets, phosphors, ceramics, others) of the rare earths market. In addition, 12 leading national markets are forecasted and analysed by Visiongain over the period 2012-2022. The report also provides profiles of 16 leading companies in the rare earths market, and includes five exclusive interviews with principal rare earths companies, providing expert insight alongside Visiongain analysis.

Unique Selling Points

Comprehensive analysis of the prospects for the rare earths market from

2012-2022.

Analysis and forecasting informed by extensive expert consultation with industry leaders.

You will be able to read full transcripts of interviews from five leading companies involved within the aluminium market.

304 tables, charts and graphs that quantify, analyse and forecast the changing dynamics of the rare earths market between 2012-2022.

Forecasts and analysis of the global rare earths market between 2012-2022.

Production forecasts for 18 rare earths projects between 2012-2022

Forecasts and analysis 13 rare earths prices for the period 2012-2022.

Comprehensive analysis of the world (ex-china) rare earths market from 2012-2022.

Comprehensive analysis of the Chinese rare earths market from 2012-2022.

Forecasts and analysis for eight rare earths end-use sectors from 2012-2022.

Forecasts and analysis for 12 leading national rare earths markets for the period 2012-2022.

Analysis of the forces that influence and dynamics of the rare earths market.

SWOT analysis that examine the rare earths market from 2012-2022.

Profiles of 16 leading companies operating within the rare earths market.

Historical data of production, consumption and prices.

Methodology

This report has been compiled by combining information obtained from a wide and rich

mixture of primary and secondary research sources, producing a broad industry overview. The forecast data was produced by Visiongain's proprietary quantitative model encompassing all major rare earths producer and consumer countries. Visiongain sought opinions from leading figures in the rare earths market to underpin the analysis of market drivers and restraints.

The study draws on a diverse range of official corporate and governmental announcements, media reports, policy documents, industry statements and expert opinion as a basis for discussing and predicting developments in the rare earths market between 2012 and 2022.

Visiongain considers that this methodology results in an accurate, objective mixture of analyses and forecasts.

Why you should buy The Rare Earths Market 2012-2022

You will receive a comprehensive analysis of the rare earths market from 2012-2022

The analysis and forecasting has been informed by extensive expert consultation with industry leaders. The forecasts are also based on the Visiongain proprietary quantitative model. Within the report, you will be able to read full transcripts of interviews from five leading companies/organisations involved within the rare earths market.

Lynas Corporation Limited

Arafura Resources Limited

Thinova Co. Ltd

The Chinese Society of Rare Earths - Natural Resources GP

You will find 304 tables, charts, and graphs that quantify, analyse and forecast the rare earths market from 2012-2022.

You will receive forecasts and analysis of the global rare earths market between 2012-2022.

You will receive forecasts and analysis of 12 leading national rare earths markets , by value, production and consumption from 2012-2022

China

Japan

US

Russia

France

Germany

South Korea

Italy

Netherlands

Austria

India

Thailand

You will be presented with further detailed forecasts of the ten leading elements and by eight end-use sectors for major national rare earths markets, production and consumption for the period 2012-2022

China

Japan

US

You will also receive forecasts of 12 rare earths prices for the period 2012-2022.

Terbium

Europium

Yttrium

Dysprosium

Gadolinium

Lutetium

Holmium

Lanthanum

Cerium

Neodymium

Praseodymium

Samarium

You will find forecasts and analysis of eight end-use sectors over the period 2012-2022 including details of the quantities of the leading 10 rare earths expected in each of the following applications:

Catalysts

Glass

Polishing

Metal Alloys

Magnets

Phosphors

Ceramics - Others

You will receive a SWOT analysis that examines the rare earths market from 2012-2022

You will gain profiles of 16 leading companies operating within the rare earths market

What is the structure of the report?

Chapter 1 is the executive summary

Chapter 2 of this report introduces the rare earths and discusses the common properties of rare earth elements. It also provides detailed description, application and basic characteristics of the REEs. It includes a brief introduction about mineralogy, ore and processing of rare earths. The chapter also includes a brief overview of end-use sectors, assumption and explanation and list of HS codes.

Chapter 3 examines the global rare earths market by providing in depth analysis and forecasts of the market. The chapter analyse and forecast the market value, production and consumption of the rare earths market. It has also a section on rare earths price forecasts, which present price forecasts for the selected rare earths.

Chapter 4 provides an in-depth and detailed analysis of the rare earths market by leading national markets. The chapter critically analyse the growing national markets, evaluates the market's growth rates and provides national market forecasts, along with the factors likely to contribute in market variations.

Chapter 5 provides in depth analysis of the rare earths' end-use sectors

Chapter 6 discusses the price forecasts of major rare earths oxides.

Chapter 7 provides highlights of 18 Greenfield rare earths projects, which are likely to start production during the forecast period. The chapter also discusses the risks attached to the new projects.

Chapter 8 identifies and examines the key issues facing the global rare earths industry. The chapter includes analysis of the main strengths and weaknesses of the industry, together with the opportunities available and the key threats faced by rare earths industry.

Chapter 9 includes full transcripts of exclusive Visiongain interviews with 5 key opinion-leaders in the global rare earths industry. Interviews include updates and predictions on the market.

Chapter 10 identifies and discusses the leading players in the rare earths industry.

Chapter 11 is a summary of the report, highlighting conclusions from Visiongain's research and analyses

Chapter 12 is a glossary

Methodology

This report has been compiled by combining information obtained from a wide and rich mixture of primary and secondary research sources, producing a broad industry overview. The forecast data was produced by Visiongain's proprietary quantitative model encompassing all major rare earths producer and consumer countries. Visiongain sought opinions from leading figures in the rare earths market to underpin the analysis of market drivers and restraints. The study draws on a diverse range of official corporate and governmental announcements, media reports, policy documents, industry statements and expert opinion as a basis for discussing and predicting developments in the rare earths market over the period 2012-2022.

Visiongain considers that this methodology results in an accurate, objective mixture of analyses and forecasts.

You can order this report today

Anybody with an interest in the rare earths market should gain valuable information and insight from this new study by Visiongain. Rare earths play a crucial role in digital technological products and clean energy products and are becoming an increasingly

important metal in several other key sectors.

This visiongain rare earths report will be valuable both to those already involved in the rare earths market and those wishing to enter the market in the future. Gain an understanding of how to tap into the potential of this market by ordering *The Rare Earths Market 2012-2022*.

Contents

1. EXECUTIVE SUMMARY

- 1.1 Trends in the Global Rare Earths Market
- 1.2 Major Drivers & Restraints in the Global Rare Earths Market 2012-2022
- 1.3 Benefits of This Report
- 1.4 Market Value and Prices of Rare Earths
- 1.5 Demand and Supply Situation in the Rare Earths Market
- 1.6 An Overview of the Rare Earths' End-Use Sectors

2. INTRODUCTION TO THE RARE EARTHS MARKET

- 2.1 What are the Rare Earth Elements?
- 2.2 Common Properties of the Rare Earths
- 2.3 Description, Application and Basic Characteristics of the Rare Earth Elements
 - 2.3.1 Europium
 - 2.3.2 Gadolinium
 - 2.3.3 Terbium
 - 2.3.4 Dysprosium
 - 2.3.5 Holmium
 - 2.3.6 Erbium
 - 2.3.7 Thulium
 - 2.3.8 Ytterbium
 - 2.3.9 Lutetium
 - 2.3.10 Yttrium
 - 2.3.11 Cerium
 - 2.3.12 Lanthanum
 - 2.3.13 Neodymium
 - 2.3.14 Praseodymium
 - 2.3.15 Promethium
 - 2.3.16 Samarium
 - 2.3.17 Scandium
- 2.4 Mineralogy, Ore and Processing
- 2.5 End-Use Sectors of Rare Earths
 - 2.5.1 Catalysts
 - 2.5.2 Ceramics
 - 2.5.3 Glass
 - 2.5.4 Magnets

- 2.5.5 Metal Alloys
- 2.5.6 Phosphors
- 2.5.7 Polishing
- 2.5.8 Others
- 2.6 Assumption and Explanation
- 2.7 HS Codes of Rare Earths

3. THE GLOBAL MARKET FORECAST OF RARE EARTHS 2012-2022

- 3.1 Global Market Forecast of Rare Earths 2012-2022
- 3.2 Rare Earth Production and Consumption 2012-2022

4. LEADING NATIONAL RARE EARTHS MARKETS 2012-2022

- 4.1 Chinese Rare Earths Market 2012-2022
 - 4.1.1 Chinese Rare Earths Market Forecast Summary
 - 4.1.2 Chinese Rare Earths Market 2012-2022
 - 4.1.3 Chinese Rare Earths Supply and Demand 2012-2022
 - 4.1.4 Chinese Rare Earths Future Strategy
 - 4.1.5 Chinese Rare Earths Trade and Export Quota
- 4.2 Japanese Rare Earths Market 2012-2022
- 4.3 The US Rare Earths Market 2012-2022
- 4.4 Russian Rare Earths Market 2012-2022
- 4.5 French Rare Earths Market 2012-2022
- 4.6 German Rare Earths Market 2012-2022
- 4.7 South Korean Rare Earths Market 2012-2022
- 4.8 Italian Rare Earths Market 2012-2022
- 4.9 Netherland Rare Earths Market 2012-2022
- 4.10 Austrian Rare Earths Market 2012-2022
- 4.11 Indian Rare Earths Market 2012-2022
- 4.12 Thailand Rare Earths Market 2012-2022

5. RARE EARTHS END USE MARKET ANALYSIS 2012-2022

- 5.1 Magnets
- 5.2 Phosphors
- 5.3 Catalyst
- 5.4 Metal Alloys
- 5.5 Polishing

5.6 Glass

5.7 Ceramics

5.8 Others

6. PRICE FORECAST OF RARE EARTHS 2012-2022

6.1 Assumptions for the Rare Earths Price Forecasts

6.2 Price Forecasts of Selected Rare Earths

7. HIGHLIGHTS OF SELECTED RARE EARTHS PROJECTS 2012-2022

7.1 Risks for the New Rare Earths Projects

7.1.1 Market Performance

7.1.2 Price Changes

7.1.3 Development and Processing

7.1.4 Project Funding

7.1.5 Regulation

7.1.6 Resource Super Profit Taxes

7.1.7 Supply Response

7.1.8 Foreign Exchange Risk

7.2 Analysis of Rear Earth Elements by Selected Projects

7.2.1 Mountain Pass Project

7.2.2 Bear Lodge Project

7.2.3 Bokan Mountain Project

7.2.4 Dong Pao Project

7.2.5 Mount Weld Project

7.2.6 Nolans Bore Project

7.2.7 Dubbo Project

7.2.8 Brown Range Project

7.2.9 Stromberg Project

7.2.10 Kutessay II Project

7.2.11 Thor Lake Project

7.2.12 Hoidas Lake Project

7.2.13 Strange Lake Project

7.2.14 Kipawa Project

7.2.15 Steenkampskraal Project

7.2.16 Zandkopsdrift Project

7.2.17 Kvanefjeld Project

7.2.18 Norra Karr Project

8. SWOT ANALYSIS OF THE RARE EARTHS MARKET 2012-2022

8.1 Strengths

- 8.1.1 Usage in High-Tech Products
- 8.1.2 Emerging Countries will Drive the Growth
- 8.1.3 Inelastic Demand in Most End-Use Sectors
- 8.1.4 Contribution to the Environment
- 8.1.5 Unique Dynamics in Some End-Use Sectors
- 8.1.6 Essential Role in the Defence Industry

8.2 Weaknesses

- 8.2.1 Dependence on China
- 8.2.2 High Cost of Production
- 8.2.3 Low REEs Prices
- 8.2.4 Recycling to Some Extent is Uneconomical
- 8.2.5 HREEs are Scarce
- 8.2.6 Small Market Compare to Other Metals
- 8.2.7 Lack of Interest from Big Miners
- 8.2.8 Environmental Issues

8.3 Opportunities

- 8.3.1 Additional Supply
- 8.3.2 High Demand in the Long Run
- 8.3.3 Recycling- An opportunity
- 8.3.4 Essential Part in the Clean Energy Products
- 8.3.5 High Prices will Encourage New investment
- 8.3.6 New Supply will Create More Demand
- 8.3.7 Chinese Intuitive for Consolidation

8.4 Threats

- 8.4.1 Changes in the Chinese Export Quota
- 8.4.2 R&D might Reduce the Usage of Rare Earth Elements
- 8.4.3 High Prices Might Reduce the Usage
- 8.4.4 Competition from Substitutes

9. EXPERT OPINION

9.1 MR. Nicholas Curtis, the Executive Chairman of Lynas Corporation Limited

- 9.1.1 The Future Demand and Supply Situation in the Rare Earth Metal Market
- 9.1.2 The Major Drivers and Restrainers in the Rare Earth Metal Market
- 9.1.3 The Question of Balance Between Heavy Rare Earth Elements and Light Rare

Earth Elements

- 9.1.4 The Leading End-Use Sector in the Rare Earths Market in the Next 10 Years
- 9.1.5 The Price Dynamics in the Rare Earth Metal Market
- 9.1.6 Increased Investment and Spending in the Rare Earth Metal Market
- 9.1.7 Growth Rates in the Consumption of Rare Earth Metal in the Next Ten Years
- 9.2 Mr. Chris Tonkin, CEO of Arafura Resources Limited
 - 9.2.1 Addition Production Capacity will be Required to Fulfil the Growing Demand for Rare Earths
 - 9.2.2 Some Rare Earths' End-Use Sectors will Face Supply Constraints in the Next Ten Years
 - 9.2.3 Some End-Use Sectors will be Growing with a 10% of CAGR per Annum During the Next Decade
 - 9.2.4 A Number of Initiatives can be Taken to Reduce the Reliance on the Chinese Supply of REE in the Next Ten Years
 - 9.2.5 Some Rare Earths Prices will Remain High Due to Strong Demand and Limited Supply in the Next Ten Years
 - 9.2.6 The Future of Commercial-Ready Rare Earths-Free Vehicles
 - 9.2.7 Challenges and Opportunities for Arafura Resources Ltd in the Next Ten Years
- 9.3 Randy Callihan, Vice President of Technology at Thinova Co. Ltd.
 - 9.3.1 Developments in Magnetic Circuit Design and Material Design and its Impact on the Rare Earths Consumption
 - 9.3.2 Substantial Changes in Using the Rare Earth Metal in Magnets Over the Period of Next Ten Years
 - 9.3.3 Major End-Use Sectors for Magnets and Growth Potential in the Next Ten Years
 - 9.3.4 The Future of Magnets Recycling
 - 9.3.5 Rare Earths Prices and the Magnet's Cost Structure
 - 9.3.6 The Future of Magnet Industry and Stability in the Rare Earths Prices
- 9.4 Dr. Zhanheng Chen, Director, Academic Department at the Chinese Society of Rare Earths (CSRE)
 - 9.4.1 Demand and Supply Situation of Rare Earths in the Next Ten Years, and the Role of China
 - 9.4.2 The Major End Sectors of the Rare Earth Metal in the Next Ten Years
 - 9.4.3 The Growth Rate in the Rare Earths Demand in the Next Ten Years
 - 9.4.4 Initiatives to Reduce Reliance on the Chinese Rare Earths
 - 9.4.5 The Future of Rare Earths Prices
 - 9.4.6 The Future of Rare Earths Substitutes Products
 - 9.4.7 Changes in the Chinese Rare Earths' Export Quota
 - 9.4.8 The impact of Chinese Exports on ROW Rare Earths Industry
- 9.5 Vasili Nicoletopoulos, Owner of 'Natural Resources GP

- 9.5.1 Additional Capacity from China and Rest of the World
- 9.5.2 Leading End-Use Sectors for Rare Earths in the Next 10 Years
- 9.5.3 Growth in the Rare Earth Market Demand in the Next Ten Years
- 9.5.4 The Impact of Plummeting Prices on the Rare Earth Supply
- 9.5.5 Factors Influencing the Rare Earths Prices in the Next Ten Years
- 9.5.6 The Role of Reducing the Usage of Rare Earths
- 9.5.7 The Changes in the Chinese Export Quota

10. LEADING COMPANIES IN THE RARE EARTHS MARKET

- 10.1 Alkane Resources Limited
- 10.2 Arafura Resources Limited
- 10.3 Avalon Rare Metal Incorporation
- 10.4 Great Western Minerals Group Ltd
- 10.5 Lynas Corporation Limited
- 10.6 Matamec Explorations Inc
- 10.7 Molycorp Inc
- 10.8 Neo Material Technologies
- 10.9 Quest Rare Minerals Ltd
- 10.10 Rare Element Resources Ltd
- 10.11 Ucore Rare Metals Inc
- 10.12 Frontier Rare Earths
- 10.13 Greenland Minerals and Energy Ltd
- 10.14 Tasman Metals Ltd
- 10.15 Indian Rare Earths Ltd (IREL)
- 10.16 Inner Mongolia Baotou Steel Rare-Earth (Group) Hi-Tech Co., Ltd

11. CONCLUSIONS

- 11.1 Market Value and Prices of Rare Earths
- 11.2 Market Balance Analysis in Rare Earths Market
- 11.3 End-Use Sectors of Rare Earths Market
- 11.4 Drivers and Restraints in the Global Rare Earths Industry

12. GLOSSARY

List Of Tables

LIST OF TABLES

Table 1.1 Major Drivers & Restraints in the Rare Earths Market 2012-2022

Table 1.1 Major Drivers & Restraints in the Rare Earths Market 2012-2022

Table 1.2 Leading 12 National Rare Earths Market Forecast 2011- 2022 (\$ million)

Table 1.3 Global Market Forecast by Leading Ten Rare Earths 2011- 2022 (\$ million)

Table 1.4 Price Forecasts of Leading Ten Rare Earths 2011- 2022 (\$/kg)

Table 1.5 Global Production and Consumption Forecasts of Rare Earths 2011- 2022 (tonnes, AGR %)

Table 1.6 Global Rare Earths Market Forecast by Eight End-Use Sectors 2011-2022 (\$ million, AGR %)

Table 1.7 Global Rare Earths Market Forecast by Leading Ten Elements in Eight End-Use Sectors 2012 (\$ million)

Table 1.8 Global Rare Earths Market Forecast by Leading Ten Elements in Eight End-Use Sectors 2022 (\$ million)

Table 1.9 Global Rare Earths Consumption Forecast by Eight End-Use Sectors 2011-2022 ('000 tonnes, AGR %)

Table 1.10 Global Rare Earths Consumption Forecast by Leading Eight Elements in Eight End-Use Sectors 2012 (tonnes)

Table 1.11 Global Rare Earths Consumption Forecast by Leading Ten Elements in Eight End-Use Sectors 2022 (tonnes)

Table 2.1 Periodic Table of Elements With Rare Earth Elements Highlighted

Table 2.2 Application of Rare Earths by Elements (2012)

Table 2.3 Europium: Basic Information and Properties

Table 2.4 Gadolinium: Basic Information and Properties

Table 2.5 Terbium: Basic Information and Properties

Table 2.6 Dysprosium: Basic Information and Properties

Table 2.7 Holmium: Basic Information and Properties

Table 2.8 Erbium: Basic Information and Properties

Table 2.9 Thulium: Basic Information and Properties

Table 2.10 Ytterbium: Basic Information and Properties

Table 2.11 Lutetium: Basic Information and Properties

Table 2.12 Yttrium: Basic Information and Properties

Table 2.13 Cerium: Basic Information and Properties

Table 2.14 Lanthanum: Basic Information and Properties

Table 2.15 Neodymium: Basic Information and Properties

Table 2.16 Praseodymium: Basic Information and Properties

Table 2.17 Promethium: Basic Information and Properties

Table 2.18 Samarium: Basic Information and Properties

Table 2.19 Scandium: Basic Information and Properties

Table 2.20 The Rare Earths Minerals, Formulas and REOs Contents (%)

Table 2.21 HS Codes of Rare Earths

Table 3.1 Global Rare Earths Market Forecast 2011-2022 (\$ billion, AGR %)

Table 3.2 Global Rare Earths Market Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 3.3 Breakdown of Global Rare Earths Market Forecast by Leading Ten Elements 2011-2022 (\$ million, AGR %)

Table 3.4 Global Rare Earths Production Forecast 2011-2022 ('000 tonnes, AGR %)

Table 3.5 Global Rare Earths Production Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 3.6 Breakdown of Global Rare Earths Production Forecast by Leading 13 Elements 2011-2022 (tonnes, AGR %)

Table 3.7 Global Rare Earths Consumption Forecast 2011-2022 ('000 tonnes, AGR %)

Table 3.8 Global Rare Earths Consumption Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 3.9 Breakdown of Global Rare Earths Consumption Forecast by Leading Ten Rare Earth Elements 2011-2022 (tonnes, AGR %)

Table 3.10 Selected Five Light Rare Earth Elements Production, Consumption and Balance Forecast 2011-2022 (tonnes)

Table 3.11 Selected Five Heavy Rare Earths Elements Production, Consumption and Balance Forecast 2011-2022 (tonnes)

Table 3.12 Others Rare Earths Elements Production, Consumption and Balance Forecast 2011-2022 (tonnes)

Table 4.1 Leading National Rare Earths Markets Forecast 2012-2022 (\$m, AGR %)

Table 4.2 Market Forecast Summary 2012, 2017 and 2022 (\$m, Rank, % Share, CAGR %, Cumulative)

Table 4.3 Chinese Rare Earths Market Forecast 2012-2022 (\$m, AGR %)

Table 4.4 Chinese Rare Earths Market Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 4.5 Chinese Rare Earths Market Forecast by Eight End-Use Sectors 2011-2022 (\$million, AGR %)

Table 4.6 Chinese Rare Earths Market Forecast by Leading Ten Elements in Eight End-Use Sectors 2012 (\$ million)

Table 4.7 Chinese Rare Earths Market Forecast by Leading Ten Elements in Eight End-Use Sectors 2022 (\$ million)

Table 4.8 Chinese Provincial Rare Earths Mining Quotas by HREOs and LREOs and

Production 2007-H1:2012 (tonnes)

Table 4.9 Chinese Rare Earths Companies in the Environmental Protection Verification List

Table 4.10 Chinese Rare Earths Production, Consumption and Balance Forecast 2011-2022 ('000 tonnes, AGR %)

Table 4.11 Chinese Rare Earths Consumption Forecast by Eight End-Use Sectors 2011-2022 ('000 tonnes, AGR %)

Table 4.12 Chinese Rare Earths Consumption Forecast by Leading Ten Elements in Eight End-Use Sectors 2012 (tonnes)

Table 4.13 Chinese Rare Earths Consumption Forecast by Leading Ten Elements in Eight End-Use Sectors 2022 (tonnes)

Table 4.14 Chinese LREEs, HREEs and Balance Forecast 2000-2022 ('000 tonnes, AGR %)

Table 4.15 China's Rare Earths Export Duty Rates (2007-2011)

Table 4.16 Japanese Rare Earths Market Forecast Summary 2012, 2017 and 2022 (\$m, Rank, % Share, CAGR %, Cumulative)

Table 4.17 Japanese Rare Earths Market Forecast 2012-2022 (\$m, AGR %)

Table 4.18 Japanese Rare Earths Market Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 4.19 Japanese Rare Earths Market Forecast by Eight End-Use Sectors 2011-2022 (\$million, AGR %)

Table 4.20 Japanese Rare Earths Market Forecast by Leading Ten Elements in Eight End-Use Sectors 2012 (\$million)

Table 4.21 Japanese Rare Earths Market Forecast by Leading Ten Elements in Eight End-Use Sectors 2022 (\$million)

Table 4.22 Japanese Rare Earths Consumption Forecast 2012-2022 ('000 tonnes, AGR %)

Table 4.23 Japanese Rare Earths Consumption Forecast by Eight End-Use Sectors 2011-2022 ('000 tonnes, AGR %)

Table 4.24 Japanese Rare Earths Consumption Forecast by Leading Ten Elements in Eight End-Use Sectors 2012 (tonnes)

Table 4.25 Japanese Rare Earths Consumption Forecast by Leading Ten Elements in Eight End-Use Sectors 2022 (tonnes)

Table 4.26 The US Rare Earths Market Forecast Summary 2012, 2017 and 2022 (\$m, Rank, % Share, CAGR %, Cumulative)

Table 4.27 The US Rare Earths Market Forecast 2012-2022 (\$m, AGR %)

Table 4.28 The US Rare Earths Market Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 4.29 The US Rare Earths Market Forecast by Eight End-Use Sectors 2011-2022

(\$million, AGR %)

Table 4.30 The US Rare Earths Market Forecast by Leading Ten Elements in Eight End-Use Sectors 2012 (\$million)

Table 4.31 The US Rare Earths Market Forecast by Leading Ten Elements in Eight End-Use Sectors 2022 (\$million)

Table 4.32 The US Rare Earths Consumption Forecast 2012-2022 ('000 tonnes, AGR %)

Table 4.33 The US Rare Earths Consumption Forecast by Eight End-Use Sectors 2011-2022 ('000 tonnes, AGR %)

Table 4.34 The US Rare Earths Consumption Forecast by Leading Ten Elements in Eight End-Use Sectors 2012 (tonnes)

Table 4.35 The US Rare Earths Consumption Forecast by Leading Ten Elements in Eight End-Use Sectors 2022 (tonnes)

Table 4.36 The US Rare Earths Production Forecast 2012-2022 ('000 tonnes, AGR %)

Table 4.37 Russian Rare Earths Market Forecast Summary 2012, 2017 and 2022 (\$m, Rank, % Share, CAGR %, Cumulative)

Table 4.38 Russian Rare Earths Market Forecast 2012-2022 (\$m, AGR %)

Table 4.39 Russian Rare Earths Market Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 4.40 Russian Rare Earths Production, Consumption and Balance Forecast 2011-2022 (tonnes, AGR %)

Table 4.41 French Rare Earths Market Forecast Summary 2012, 2017 and 2022 (\$m, Rank, % Share, CAGR %, Cumulative)

Table 4.42 French Rare Earths Market Forecast 2012-2022 (\$m, AGR %)

Table 4.43 French Rare Earths Market Forecast CAGR (%) 2012-2022, 2012- 2017, and 2017-2022

Table 4.44 French Rare Earths Consumption Forecast 2012-2022 (tonnes, AGR %)

Table 4.45 German Rare Earths Market Forecast Summary 2012, 2017 and 2022 (\$m, Rank, % Share, CAGR %, Cumulative)

Table 4.46 German Rare Earths Market Forecast 2012-2022 (\$m, AGR %)

Table 4.47 German Rare Earths Market Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 4.48 German Rare Earths Consumption Forecast 2012-2022 (tonnes, AGR %)

Table 4.49 South Korean Rare Earths Market Forecast Summary 2012, 2017 and 2022 (\$m, Rank, % Share, CAGR %, Cumulative)

Table 4.50 South Korean Rare Earths Market Forecast 2012-2022 (\$m, AGR %)

Table 4.51 South Korean Rare Earths Market Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 4.52 South Korean Rare Earths Consumption Forecast 2012-2022 (tonnes, AGR

%)

Table 4.53 Italian Rare Earths Market Forecast Summary 2012, 2017 and 2022 (\$m, Rank, % Share, CAGR %, Cumulative)

Table 4.54 Italian Rare Earths Market Forecast 2012-2022 (\$m, AGR %)

Table 4.55 Italian Rare Earths Market Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 4.56 Italian Rare Earths Consumption Forecast 2012-2022 (tonnes, AGR %)

Table 4.57 Netherlands Rare Earths Market Forecast Summary 2012, 2017 and 2022 (\$m, Rank, % Share, CAGR %, Cumulative)

Table 4.58 Netherland Rare Earths Market Forecast 2012-2022 (\$m, AGR %)

Table 4.59 Netherland Rare Earths Market Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 4.60 Netherlands Rare Earths Consumption Forecast 2012-2022 (tonnes, AGR %)

Table 4.61 Austrian Rare Earths Market Forecast Summary 2012, 2017 and 2022 (\$m, Rank, % Share, CAGR %, Cumulative)

Table 4.62 Austrian Rare Earths Market Forecast 2012-2022 (\$m, AGR %)

Table 4.63 Austrian Rare Earths Market Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 4.64 Austrian Rare Earths Consumption Forecast 2012-2022 (tonnes, AGR %)

Table 4.65 Indian Rare Earths Market Forecast Summary 2012, 2017 and 2022 (\$m, Rank, % Share, CAGR %, Cumulative)

Table 4.66 Indian Rare Earths Market Forecast 2011-2022 (\$m, AGR %)

Table 4.67 Indian Rare Earths Market Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 4.68 Indian Monazite Reserves by State (million tonnes)

Table 4.69 Indian Rare Earths Production, Consumption and Balance Forecast 2011-2022 (tonnes, AGR %)

Table 4.70 Thailand Rare Earths Market Forecast Summary 2012, 2017 and 2022 (\$m, Rank, % Share, CAGR %, Cumulative)

Table 4.71 Thailand Rare Earths Market Forecast 2012-2022 (\$m, AGR %)

Table 4.72 Thailand Rare Earths Market Forecast CAGR (%) 2012-2022, 2012-2017, and 2017-2022

Table 4.73 Thailand Rare Earths Consumption Forecast 2012-2022 (tonnes)

Table 5.1 Breakdown of Composition of NdFeB

Table 5.2 Percentage of Leading Ten Rare Earths Metals Used in Magnets Sector 2012 (%)

Table 5.3 Rare Earths Market Forecast in Magnets Sector 2011-2022 (\$ million)

Table 5.4 Magnets Market Segmented by Leading Ten Rare Earth Elements 2012 (\$

million)

Table 5.5 Magnets Market Segmented by Leading Ten Rare Earth Elements 2022 (\$ million)

Table 5.6 Rare Earths Consumption Forecast in Magnets Sector 2011-2022 (tonnes)

Table 5.7 Rare Earths Consumption in Magnets Sector by Leading Ten Rare Earth Elements 2012 (tonnes)

Table 5.8 Rare Earths Consumption in Magnets Sector by Leading Ten Rare Earth Elements 2022 (tonnes)

Table 5.9 Rare Earths Market Forecast in Phosphors Sector 2011-2022 (\$ million)

Table 5.10 Percentage of Leading Ten Rare Earth Elements Used in Phosphors Sector 2012 (%)

Table 5.11 Phosphors Market Segmented by Leading Ten Rare Earth Elements 2012 (\$ million)

Table 5.12 Phosphors Market Segmented by Leading Ten Rare Earth Elements 2022 (\$ million)

Table 5.13 Rare Earths Consumption Forecast in Phosphors Sector 2011-2022 (tonnes)

Table 5.14 Rare Earths Consumption in Phosphors Sector by Leading Ten Rare Earth Elements 2012 (tonnes)

Table 5.15 Rare Earths Consumption in Phosphors Sector by Leading Ten Rare Earth Elements 2022 (tonnes)

Table 5.16 Rare Earths Market Forecast in Catalysts Sector 2011-2022 (\$ million)

Table 5.17 Percentage of Leading Ten Rare Earth Metals Used in Catalysts Sector 2012 (%)

Table 5.18 Catalysts Market Segmented by Leading Ten Rare Earth Elements 2012 (\$ million)

Table 5.19 Catalysts Market Segmented by Leading Ten Rare Earth Elements 2022 (\$ million)

Table 5.20 Rare Earths Consumption Forecast in Catalysts Sector 2011-2022 (tonnes)

Table 5.21 Rare Earths Consumption in Catalysts Sector by Leading Ten Rare Earth Elements 2012 (tonnes)

Table 5.22 Rare Earths Consumption in Catalysts Sector by Leading Ten Rare Earth Elements 2022 (tonnes)

Table 5.23 Rare Earths Market Forecast in Metal Alloys Sector 2011-2022 (\$ million)

Table 5.24 Percentage of Leading Ten Rare Earth Metals Used in Metal Alloys Sector 2012 (%)

Table 5.25 Metal Alloys Market Segmented by Leading Ten Rare Earths Elements 2012 (\$ million)

Table 5.26 Metal Alloys Market Segmented by Leading Ten Rare Earths Elements 2022 (\$ million)

Table 5.27 Rare Earths Consumption Forecast in Metal Alloys Sector 2011-2022 (tonnes)

Table 5.28 Rare Earths Consumption in Metal Alloys Sector by Leading Ten Elements 2012 (tonnes)

Table 5.29 Rare Earths Consumption in Metal Alloys Sector by Leading Ten Elements 2022 (tonnes)

Table 5.30 Rare Earths Market Forecast in Polishing Sector 2011-2022 (\$ million)

Table 5.31 Percentage of Leading Ten Rare Earth Metals Used in Polishing Sector 2012 (%)

Table 5.32 Polishing Market Segmented by Leading Ten Rare Earth Elements 2012 (\$ million)

Table 5.33 Polishing Market Segmented by Leading Ten Rare Earth Elements 2022 (\$ million)

Table 5.34 Rare Earths Consumption Forecast in Polishing Sector 2011-2022 (tonnes)

Table 5.35 Rare Earths Consumption in Polishing Sector by Leading Ten Rare Earth Elements 2012 (tonnes)

Table 5.36 Rare Earths Consumption in Polishing Sector by Leading Ten Rare Earth Elements 2022 (tonnes)

Table 5.37 Rare Earths Market Forecast in Glass Sector 2011-2022 (\$ million)

Table 5.38 Percentage of Leading Ten Rare Earth Metals Used in Glass Sector 2012 (%)

Table 5.39 Glass Market Segmented by Leading Ten Rare Earth Elements 2012 (\$ million)

Table 5.40 Glass Market Segmented by Leading Ten Rare Earth Elements 2022 (\$ million)

Table 5.41 Rare Earths Consumption Forecast in Glass Sector 2011-2022 (tonnes)

Table 5.42 Rare Earths Consumption in Glass Sector by Leading Ten Elements 2012 (tonnes)

Table 5.43 Rare Earths Consumption in Glass Sector by Leading Ten Elements 2022 (tonnes)

Table 5.44 Rare Earths Market Forecast in Ceramics Sector 2011-2022 (\$ million)

Table 5.45 Percentage of Leading Ten Rare Earth Metals Used in Ceramics Sector 2012 (%)

Table 5.46 Ceramics Market Segmented by Leading Ten Rare Earths Elements 2012 (\$ million)

Table 5.47 Ceramics Market Segmented by Leading Ten Rare Earths Elements 2022 (\$ million)

Table 5.48 Rare Earths Consumption Forecast in Ceramics Sector 2011-2022 (tonnes)

Table 5.49 Rare Earths Consumption in Ceramics Sector by Leading Ten Rare Earth

Elements 2012 (tonnes)

Table 5.50 Rare Earths Consumption in Ceramics Sector by Leading Ten Rare Earths Elements 2022 (tonnes)

Table 5.51 Rare Earths Market Forecast in Others Sector 2011-2022 (\$ million)

Table 5.52 Percentage of Leading Ten Rare Earth Metals Used in Others Sector 2012 (%)

Table 5.53 Others Market Segmented by Leading Ten Rare Earths Elements 2012 (\$ million)

Table 5.54 Others Market Segmented by Leading Ten Rare Earths Elements 2022 (\$ million)

Table 5.55 Rare Earths Consumption Forecast in Others Sector 2011-2022 (tonnes)

Table 5.56 Rare Earths Consumption in Others Sector by Leading Ten Rare Earth Elements 2012 (tonnes)

Table 5.57 Rare Earths Consumption in Others Sector by Leading Ten Rare Earth Elements 2022 (tonnes)

Table 6.1 Rare Earths Price Forecast by Leading 12 Elements (Oxide Equivalent) 2011-2022 (\$/kg , AGR %)

Table 6.2 Terbium Price forecast 2011-2022 (\$/kg, AGR %)

Table 6.3 Europium Price forecast 2011-2022 (\$/kg, AGR %)

Table 6.4 Yttrium Price forecast 2011-2022 (\$/kg, AGR %)

Table 6.5 Dysprosium Price forecast 2011-2022 (\$/kg, AGR %)

Table 6.6 Gadolinium Price forecast 2011-2022 (\$/kg, AGR %)

Table 6.7 Lutetium Price forecast 2011-2022 (\$/kg, AGR %)

Table 6.8 Holmium Price forecast 2011-2022 (\$/kg, AGR %)

Table 6.9 Lanthanum Price forecast 2011-2022 (\$/kg, AGR %)

Table 6.10 Cerium Price forecast 2011-2022 (\$/kg, AGR %)

Table 6.11 Neodymium Price forecast 2011-2022 (\$/kg, AGR %)

Table 6.12 Praseodymium Price forecast 2011-2022 (\$/kg, AGR %)

Table 6.13 Samarium Price forecast 2011-2022 (\$/kg, AGR %)

Table 7.1 List of 25 Rare Earths Projects Expected to Come online During 2012-2022: Location, Company Name, Projects Name, Capacity, Expected Time Line, and Stage of Development

Table 7.2 Mountain Pass Project: Production Forecast by Leading 15 Elements 2012-2022 (tonnes)

Table 7.3 Bear Lodge Project: Production Forecast by Leading 15 Elements 2012-2022 (tonnes)

Table 7.4 Bokan Mountain Project: Production Forecast by Leading 15 Elements 2012-2022 (tonnes)

Table 7.5 Dong Pao Project: Production Forecast by Leading 15 Elements 2012-2022

(tonnes)

Table 7.6 Mount Weld Project: Production Forecast by Leading 15 Elements 2012-2022

(tonnes)

Table 7.7 Nolans Bore Project: Production Forecast by Leading 15 Elements 2012-2022

(tonnes)

Table 7.8 Dubbo Project: Production Forecast by Leading 15 Elements 2012-2022

(tonnes)

Table 7.9 Brown Range Project: Production Forecast by Leading 15 Elements

2012-2022 (tonnes)

Table 7.10 Stromberg Project: Production Forecast by Leading 15 Elements 2012-2022

(tonnes)

Table 7.11 Kutessay II Project: Production Forecast by Leading 15 Elements 2012-2022

(tonnes)

Table 7.12 Thor Lake Project: Production Forecast by Leading 15 Elements 2012-2022

(tonnes)

Table 7.13 Hoidas Lake Project: Production Forecast by Leading 15 Elements

2012-2022 (tonnes)

Table 7.14 Strange Lake Project: Production Forecast by Leading 15 Elements

2012-2022 (tonnes)

Table 7.15 Kipawa Project: Production Forecast by Leading 15 Elements 2012-2022

(tonnes)

Table 7.16 Steenkamsraal Project: Production Forecast by Leading 15 Elements

2012-2022 (tonnes)

Table 7.17 Zandkopsdrift Project: Production Forecast by Leading 15 Elements

2012-2022 (tonnes)

Table 7.18 Kvanefjeld Project: Production Forecast by Leading 15 Elements 2012-2022

(tonnes)

Table 7.19 Norra Karr Project: Production Forecast by Leading 15 Elements 2012-2022

(tonnes)

Table 8.1 SWOT Analysis of the Rare Earths Market 2012-2017

Table 10.1 Top 10 Chinese Rare Earths Producers by 2010 Production (tonnes)

Table 11.1 Average Prices of Leading 12 Rare Earths, 2012-2022, 2012-2017,
2017-2022 (\$/kg, CAGR %)

Table 11.2 Leading 15 Rare Earth Elements Production Forecast 2011- 2022 (tonnes)

Table 11.3 Rare Earths Over-Supply Risk matrix: High (H), Low (L) and Medium (M)
2011-2022

Table 11.4 Global Rare Earths Market Forecast by Eight End-Use Sector 2011-2022
(\$million, AGR %)

List Of Figures

LIST OF FIGURES

Figure 1.1 Global Rare Earths Market Forecast 2011- 2022 (\$ billion)

Figure 1.2 Global Market Forecast by Leading Ten Rare Earths 2011- 2022 (\$ million)

Figure 1.3 Global Productions and Consumption Forecasts of Rare Earths 2011- 2022 (tonnes)

Figure 1.4 Global Rare Earths Market Forecast by Eight End-Use Sectors 2011-2022 (\$ million)

Figure 1.5 Global Rare Earths Consumption Forecast by Eight End-Use Sectors 2011-2022 (tonnes)

Figure 2.1 Rare Earth Elements Segmentation by LREE and HREE

Figure 2.2 Selected Rare Earths Sites in the World

Figure 2.3 Value Chain of Rare Earth Elements

Figure 2.4 End-Use Sectors of Rare Earths (2012)

Figure 3.1 Global Rare Earths Market Forecast 2011-2022 (\$ billion)

Figure 3.2 Breakdown of Global Rare Earths Market Forecast by Leading Ten Elements 2011-2022 (\$ million)

Figure 3.3 Global Rare Earths Production Forecast 2011-2022 ('000 tonnes)

Figure 3.4 Breakdown of Global Rare Earths Production Forecast by Leading 13 Elements 2011-2022 (tonnes)

Figure 3.5 Global Rare Earths Consumption Forecast 2011-2022 ('000 tonnes)

Figure 3.6 Global Rare Earths Production, Consumption and Balance Forecast 2011-2022 ('000 tonnes)

Figure 4.1 Chinese Rare Earths Market Share Forecast 2012, 2017 and 2022 (% Share)

Figure 4.2 Chinese Rare Earths Market Forecast 2012-2022 (\$m)

Figure 4.3 Chinese Rare Earths Market Forecast by Eight End-Use Sectors 2011-2022(\$ million)

Figure 4.4 Chinese Rare Earths Production Forecast 2000-2022 (tonnes)

Figure 4.5 Chinese Rare Earths Production and Consumption Forecast Comparisons 2000-2022 (tonnes)

Figure 4.6 Chinese Rare Earths Consumption Forecast by Eight End-Use Sectors 2011-2022 ('000 tonnes)

Figure 4.7 Chinese Rare Earths Consumption by Eight End-Use Sectors 2012 (%)

Figure 4.8 Chinese Rare Earths Export Quota 2005-2012 (tonnes)

Figure 4.9 Japanese Rare Earths Market Share Forecast 2012, 2017 and 2022 (% Share)

Figure 4.10 Japanese Rare Earths Market Forecast 2012-2022 (\$m)

Figure 4.11 Japanese Rare Earth Metal Market Forecast by Eight End-Use Sectors 2011-2022 (\$ million)

Figure 4.12 Japanese Rare Earths Consumption Forecast 2012-2022 (tonnes)

Figure 4.13 Japanese Consumption of Rare Earths by Eight End-Use Sectors 2012 (%)

Figure 4.14 Japanese Rare Earths Consumption Forecast by Eight End- Use Sectors 2011-2022 ('000 tonnes), AGR %)

Figure 4.15 The US Rare Earths Market Share Forecast 2012, 2017 and 2022 (% Share)

Figure 4.16 The US Rare Earths Market Forecast 2012-2022 (\$m)

Figure 4.17 The US Rare Earths Market Forecast by Eight End-Use Sectors 2011-2022 (\$ million)

Figure 4.18 The US Rare Earths Consumption Forecast 2012-2022 (tonnes)

Figure 4.19 The US Rare Earths Consumption Forecast by Eight End-Use Sectors 2011-2022 (tonnes)

Figure 4.20 The US Rare Earths Production Forecast 2012-2022 (tonnes)

Figure 4.21 Russian Rare Earth Market Share Forecast 2012, 2017 and 2022 (% Share)

Figure 4.22 Russian Rare Earths Production and Consumption Forecast 2012-2022 (tonnes)

Figure 4.24 French Rare Earths Market Share Forecast 2012, 2017 and 2022 (% Share)

Figure 4.25 French Rare Earths Market Forecast 2012-2022 (\$m)

Figure 4.26 French Rare Earths Consumption Forecast 2012-2022 (tonnes)

Figure 4.27 German Rare Earths Market Share Forecast 2012, 2017 and 2022 (% Share)

Figure 4.28 German Rare Earths Market Forecast 2012-2022 (\$m)

Figure 4.29 German Rare Earths Consumption Forecast 2012-2022 (tonnes)

Figure 4.30 South Korean Rare Earth Market Share Forecast 2012, 2017 and 2022 (% Share)

Figure 4.31 South Korean Rare Earths Market Forecast 2012-2022 (\$m)

Figure 4.32 South Korean Rare Earths Consumption Forecast 2012-2022 (tonnes)

Figure 4.33 Italian Rare Earths Market Share Forecast 2012, 2017 and 2022 (% Share)

Figure 4.34 Italian Rare Earths Market Forecast 2012-2022 (\$m)

Figure 4.35 Italian Rare Earths Consumption Forecast 2012-2022 (tonnes)

Figure 4.36 Netherland Rare Earths Market Share Forecast 2012, 2017 and 2022 (% Share)

Figure 4.37 Netherland Rare Earths Market Forecast 2012-2022 (\$m)

Figure 4.38 Netherlands Rare Earths Consumption Forecast 2012-2022 (tonnes)

Figure 4.39 Austrian Rare Earths Market Share Forecast 2012, 2017 and 2022 (% Share)

Figure 4.40 Austrian Rare Earths Market Forecast 2012-2022 (\$m)

Figure 4.41 Austrian Rare Earths Consumption Forecast 2012-2022 (tonnes)

Figure 4.42 Indian Rare Earths Market Share Forecast 2012, 2017 and 2022 (% Share)

Figure 4.43 Indian Rare Earths Market Forecast 2011-2022 (\$m)

Figure 4.44 Indian Rare Earths Production, Consumption and Balance Forecast 2011-2022 (tonnes)

Figure 4.45 Thailand Rare Earths Market Share Forecast 2012, 2017 and 2022 (% Share)

Figure 4.46 Thailand Rare Earths Market Forecast 2012-2022 (\$m)

Figure 4.47 Thailand Rare Earths Consumption Forecast 2012-2022 (tonnes)

Figure 5.1 Rare Earths Market Forecast in Magnets Sector 2011-2022 (\$ million)

Figure 5.2 Rare Earths Consumption Forecast in Magnets Sector 2011-2022 (tonnes)

Figure 5.3 Rare Earths Market Forecast in Phosphors Sector 2011-2022 (\$ million)

Figure 5.4 Rare Earths Consumption Forecast in Phosphors Sector 2011-2022 (tonnes)

Figure 5.5 Rare Earths Market Forecast in Catalysts Sector 2011-2022 (\$ million)

Figure 5.6 Rare Earths Consumption Forecast in Catalysts Sector 2011-2022 (tonnes)

Figure 5.7 Rare Earths Market Forecast in Metal Alloys Sector 2011-2022 (\$ million)

Figure 5.8 Rare Earths Consumption Forecast in Metal Alloys Sector 2011- 2022 (tonnes)

Figure 5.9 Rare Earths Market Forecast in Polishing Sector 2011-2022 (\$ million)

Figure 5.10 Rare Earths Consumption Forecast in Polishing Sector 2011-2022 (tonnes)

Figure 5.11 Rare Earths Market Forecast in Glass Sector 2011-2022 (\$ million)

Figure 5.12 Rare Earths Consumption Forecast in Glass Sector 2011-2022 (tonnes)

Figure 5.13 Rare Earths Market Forecast in Ceramics Sector 2011-2022 (\$ million)

Figure 5.14 Rare Earths Consumption Forecast in Ceramics Sector 2011- 2022 (tonnes)

Figure 5.15 Rare Earths Market Forecast in Others Sector 2011-2022 (\$ million)

Figure 5.16 Rare Earths Consumption Forecast in Others Sector 2011- 2022 tonnes)

Figure 6.1 Terbium Price Forecast 2011-2022 (\$/kg)

Figure 6.2 Europium Price Forecast 2011-2022 (\$/kg)

Figure 6.3 Yttrium Price Forecast 2011-2022 (\$/kg)

Figure 6.4 Dysprosium Price Forecast 2011-2022 (\$/kg)

Figure 6.5 Gadolinium Price Forecast 2011-2022 (\$/kg)

Figure 6.6 Lutetium Price Forecast 2011-2022 (\$/kg)

Figure 6.7 Holmium Price Forecast 2011-2022 (\$/kg)

Figure 6.8 Lanthanum Price Forecast 2011-2022 (\$/kg)

Figure 6.9 Cerium Price Forecast 2011-2022 (\$/kg)

Figure 6.10 Neodymium Price Forecast 2011-2022 (\$/kg)

Figure 6.11 Praseodymium Price Forecast 2011-2022 (\$/kg)

Figure 6.12 Samarium Price Forecast 2011-2022 (\$/kg)

Figure 11.1 Global Rare Earths Market Forecast 2011-2022 (\$ million)

Figure 11.2 Global Rare Earths Market Forecast by Eight End-Use Sector 2011-2022(\$ million)

COMPANIES LISTED

AIDC

Aju Global

Alkane Resources Limited

AMR Technologies Inc

ANZ

Arafura Group Holdings Pty Ltd

Arafura Iron Pty Ltd

Arafura Rare Earths Pty Ltd

Arafura Resources Limited

Arafura Uranium Pty Ltd

Arnold Magnetic Technologies

Avalon Rare Metal Incorporation

Baotou Damao Rare Earth Co., Ltd.

Baotou Hongtianyu Rare Earth Magnets Co.,Ltd

Baotou Huacheng Rare-earth

Baotou Huamei Rare Earth Hi-tech Co.,Ltd

Baotou Iron and Steel (Group) Co, Ltd

Baotou Iron and Steel and Rare Earths Corp

Baotou Jingrui New Materials Co.,Ltd

Baotou Rewin Rare Earth Metal Materials Co.,Ltd

Baotou Rhodia Rare Earth New Materials Co.,Ltd

Baotou Santoku Battery Materials Co.,Ltd

Baotou Tianjiao Seimi Polishing Powder Co.,Ltd

Baotou Xijun Rare Earth Co., Ltd.

Baotou Xinlong New Material Co., Ltd

Baotou Xinyuan Rare Earth Hi-Tech and New Material Co.,Ltd.

BHPB

Canada Resources Co., Ltd

Changshu Shengchang Rare Earth Material Co.,Ltd

Changzhou Geoquin Nano New Material Co.Ltd

Chase Manhattan Bank
Chevron Corporation
Conquest Mining Limited
Crucible Materials Corporation
Daewoo Shipbuilding & Marine Engineering (DSME)
Dandong JinLong Rare Earth Co., Ltd.
Deqing Xingbang New Materials Co., Ltd.
Deutsche Rohstoff
Dingnan Nanfang Rare Earth Co., Ltd.
Eldorado Gold
Energy Conversion Systems
Evolution Mining
Forge Resources Limited
Frontier Rare Earths
Funing Rare Earth Industry Co., Ltd
Gan County Jinying Rare Earth Industry Co., Ltd
Gansu Rare Earth New Material Limited-Liability Company
Ganzhou Bulaite New Material Co., Ltd
Ganzhou Chenguang Rare Earths New Material Co.,Ltd
Great Western Minerals Group Ltd
Greenland Minerals and Energy Ltd
GS Group
Guangxi Hezhou Jinguang Rare Earth New Material Co., Ltd
Guangxi Non-ferrous Metal Group Jinyuan Rare Earth Co.,Ltd
Hellex S.A
Hitachi Industrial Equipment Systems Co., Ltd.,
Hitachi Ltd
Hohhot Rongxin New Metal Smelting Co., Ltd
Indian Rare Earths Limited (IREL),
Inner Mongolia Baotou Steel Rare-Earth (Group) Hi-Tech Co., Ltd
Inner Mongolia Hetai Rare-earth Co.,Ltd
Itamos Hydroelectric S. A
Japan Metals and Chemicals Ltd
Japan Oil, Gas and Metals National Corp (JOGMEC)
Jiangsu Guosheng Rare Earth Co.,Ltd
Jiangxi Golden Century Advanced Materials Co.,Ltd
Kazakhstan National Mining Co. (Kazatomprom)
Kerala Minerals and Metals Limited
Korea Resources Corporation (KORES)

KPMG Corporate Finance
Landmark Alaska Limited Partnership
Landmark Minerals Inc
Landmark Minerals US
Lianyungang Ligang Rare Earth Industrial Co.,Ltd
Liyang Rhodia Rare Earth New Materials Co.,Ltd
Longnan Heli Rare Earth Smelter Co.,Ltd
Longnan Kaisheng Non-ferrous Metal Co., Ltd
Longnan Longyi Rare Earth Materials Co., Ltd.
Lovozersky Mining Company
Lynas Africa Holdings Pty Ltd
Lynas Corporation Limited
Lynas Malaysia Sdn Bhd
Lynas Services Pty Ltd
Magnesite Group
Matamec Explorations Inc
Mineral solutions LLC
Minerals and Metals Limited
Mitsubishi
Molycorp Inc
Molycorp Minerals LLC
Mt Weld Holdings Limited
Mt Weld Mining Pty Ltd
Mt Weld Rare Earths Pty Ltd
Natural Resources GP
Neo Material Technologies
Northern Minerals
Panasonic
Premier Magnesia LLC
Qingyuan Jiahe Rare Metals Co., Ltd
Quannan Baotou Steel Jinghuan Rare Earth New Material Co., Ltd.
Quest Rare Minerals Ltd
Rare Earth One LLC
Rare Elements Resources Ltd
Resources Corporation (Kores)
Rhodia Group
Rhodia Thai industries Ltd
Rio Tinto
Riverstone Advisory

Samsung
Sichuan Leshan Kebairui New Material Co., Ltd
Sichuan Leshan Ruifeng Co.,Ltd
Sichuan Mianning Fangxing Rare Earth Co., Ltd
Sojitz Corporation
Solikamsk Magnesium Works
St Vincent's & Mater Health Sydney Limited
St Vincent's Health Australia Ltd
Stackpole Magnet Division.
Stance Energy Corp
Sumitomo Corp.
Tantalus Rare Earths
Tasman Metals Ltd
TDK
Thinova Co. Ltd
Thrace Gold Mines S.A
ThyssenKrupp
Toyota Corporation
Toyota Tsusho Corp
TUC Resources
Ucore Rare Metals Inc
Ucore Resources LP Inc
Union Oil
Vale
Wanbao Rare Earth Separation Co.,Ltd
Xinfeng Baotou Steel Xinli Rare Earth Co., Ltd
Xinghua Rare Earth Co., Ltd
Xunwu Nanfang Rare Earth Co.,Ltd
Xuzhou Jinshi Pengyuan Rare Earth Material Factory
Yantai Pengyu Technology and Trade Co., Ltd.
Yixing Xinwei Leeshing Rare Earth Co., Ltd.
Yiyang Hongyuan Rare Earth Co.,Ltd
5621 N.W.T. Ltd

GOVERNMENT AGENCIES AND OTHER ORGANISATIONS MENTIONED IN THIS REPORT

Asia Society AustralAsia Centre
Australian Institute of Company Directors

British Geological Survey
China Academy of Engineering
Chinese Ministry of Commerce
China Ministry of Environmental Protection
China Ministry of Industry and Information Technology
China Ministry of Land and Resources
China Ministry of Science and Technology
European Association of Mining Industries
Eurostat
Street Urban Mental Health Research Institute
Finance and Treasury Association
Garvan Institute of Medical Research
Hellenic Competition Commission
India's Atomic Energy Department
Japanese Ministry of Economy, Trade and Industry.
National Development and Reform Commission
National Rare Earth Association
Ontario Superior Court of Justice
The Chinese Society of Rare Earths (CSRE)
TsingHua University
US Congress
US Geological Survey (USGS)
World Trade Organization (WTO)

I would like to order

Product name: The Rare Earths Market 2012-2022

Product link: <https://marketpublishers.com/r/R9ED04D9FC2EN.html>

Price: US\$ 2,633.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/R9ED04D9FC2EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970