

Neutron Generators Industry Research Report 2024

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Abstracts

Neutron generators are neutron source devices which contain compact linear accelerators and that produce neutrons by fusing isotopes of hydrogen together. The fusion reactions take place in these devices by accelerating either deuterium, tritium, or a mixture of these two isotopes into a metal hydride target which also contains deuterium, tritium or a mixture of these isotopes. Fusion of deuterium atoms (D + D) results in the formation of a He-3 ion and a neutron with a kinetic energy of approximately 2.5 MeV. Fusion of a deuterium and a tritium atom (D + T) results in the formation of a He-4 ion and a neutron with a kinetic energy of approximately 14.1 MeV. Neutron generators have applications in medicine, security, and materials analysis.

According to APO Research, The global Neutron Generators market was valued at US\$ million in 2023 and is anticipated to reach US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

The major manufacturers of global neutron generators include VNIIA, Adelphi Technology, Thermo Fisher Scientific, Phoenix, Gradel (NSD Fusion), etc. The top five manufacturers in the world account for more than 60% of the market share.

North America is currently the world's largest market for neutron generators with a market share of about 40%, followed by Europe with a market share of nearly 25%.

Report Scope

This report aims to provide a comprehensive presentation of the global market for Neutron Generators, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Neutron Generators.



The report will help the Neutron Generators manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, sales volume, and average price for the overall market and the sub-segments across the different segments, by company, by Type, by Application, and by regions.

The Neutron Generators market size, estimations, and forecasts are provided in terms of sales volume (Units) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global Neutron Generators market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Phoenix

Sodern

Thermo Fisher Scientific

VNIIA

Adelphi Technology

AMETEK ORTEC



Gradel (NSD Fusion) Neutron Generators segment by Type Portable Neutron Generators Stationary Neutron Generators Neutron Generators segment by Application Oil Prospecting Security Research Others Neutron Generators Segment by Region North America U.S. Canada Europe Germany France U.K.

Italy



Russia
Asia-Pacific
China
Japan
South Korea
India
Australia
China Taiwan
Indonesia
Thailand
Malaysia
Latin America
Mexico
Brazil
Argentina
Middle East & Africa
Turkey
Saudi Arabia

UAE



Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

Reasons to Buy This Report

- 1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Neutron Generators market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
- 2. This report will help stakeholders to understand the global industry status and trends of Neutron Generators and provides them with information on key market drivers, restraints, challenges, and opportunities.
- 3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
- 4. This report stays updated with novel technology integration, features, and the latest developments in the market
- 5. This report helps stakeholders to gain insights into which regions to target globally
- 6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Neutron Generators.
- 7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline



Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of Neutron Generators manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5: Production/output, value of Neutron Generators by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of Neutron Generators in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by



manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11: The main points and conclusions of the report.

Chapter 11: The main points and conclusions of the report.



Contents

1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
 - 1.5.1 Secondary Sources
 - 1.5.2 Primary Sources

2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 Neutron Generators by Type
 - 2.2.1 Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)
 - 2.2.2 Portable Neutron Generators
 - 2.2.3 Stationary Neutron Generators
- 2.3 Neutron Generators by Application
- 2.3.1 Market Value Comparison by Application (2019 VS 2023 VS 2030) & (US\$ Million)
 - 2.3.2 Oil Prospecting
 - 2.3.3 Security
 - 2.3.4 Research
 - 2.3.5 Others
- 2.4 Global Market Growth Prospects
- 2.4.1 Global Neutron Generators Production Value Estimates and Forecasts (2019-2030)
- 2.4.2 Global Neutron Generators Production Capacity Estimates and Forecasts (2019-2030)
 - 2.4.3 Global Neutron Generators Production Estimates and Forecasts (2019-2030)
 - 2.4.4 Global Neutron Generators Market Average Price (2019-2030)

3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

- 3.1 Global Neutron Generators Production by Manufacturers (2019-2024)
- 3.2 Global Neutron Generators Production Value by Manufacturers (2019-2024)
- 3.3 Global Neutron Generators Average Price by Manufacturers (2019-2024)



- 3.4 Global Neutron Generators Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Neutron Generators Key Manufacturers, Manufacturing Sites & Headquarters
- 3.6 Global Neutron Generators Manufacturers, Product Type & Application
- 3.7 Global Neutron Generators Manufacturers, Date of Enter into This Industry
- 3.8 Global Neutron Generators Market CR5 and HHI
- 3.9 Global Manufacturers Mergers & Acquisition

4 MANUFACTURERS PROFILED

- 4.1 Phoenix
 - 4.1.1 Phoenix Neutron Generators Company Information
 - 4.1.2 Phoenix Neutron Generators Business Overview
 - 4.1.3 Phoenix Neutron Generators Production, Value and Gross Margin (2019-2024)
 - 4.1.4 Phoenix Product Portfolio
 - 4.1.5 Phoenix Recent Developments
- 4.2 Sodern
 - 4.2.1 Sodern Neutron Generators Company Information
 - 4.2.2 Sodern Neutron Generators Business Overview
 - 4.2.3 Sodern Neutron Generators Production, Value and Gross Margin (2019-2024)
 - 4.2.4 Sodern Product Portfolio
 - 4.2.5 Sodern Recent Developments
- 4.3 Thermo Fisher Scientific
 - 4.3.1 Thermo Fisher Scientific Neutron Generators Company Information
 - 4.3.2 Thermo Fisher Scientific Neutron Generators Business Overview
- 4.3.3 Thermo Fisher Scientific Neutron Generators Production, Value and Gross Margin (2019-2024)
 - 4.3.4 Thermo Fisher Scientific Product Portfolio
 - 4.3.5 Thermo Fisher Scientific Recent Developments
- 4.4 VNIIA
 - 4.4.1 VNIIA Neutron Generators Company Information
 - 4.4.2 VNIIA Neutron Generators Business Overview
 - 4.4.3 VNIIA Neutron Generators Production, Value and Gross Margin (2019-2024)
 - 4.4.4 VNIIA Product Portfolio
 - 4.4.5 VNIIA Recent Developments
- 4.5 Adelphi Technology
- 4.5.1 Adelphi Technology Neutron Generators Company Information
- 4.5.2 Adelphi Technology Neutron Generators Business Overview



- 4.5.3 Adelphi Technology Neutron Generators Production, Value and Gross Margin (2019-2024)
- 4.5.4 Adelphi Technology Product Portfolio
- 4.5.5 Adelphi Technology Recent Developments
- 4.6 AMETEK ORTEC
 - 4.6.1 AMETEK ORTEC Neutron Generators Company Information
 - 4.6.2 AMETEK ORTEC Neutron Generators Business Overview
- 4.6.3 AMETEK ORTEC Neutron Generators Production, Value and Gross Margin (2019-2024)
 - 4.6.4 AMETEK ORTEC Product Portfolio
- 4.6.5 AMETEK ORTEC Recent Developments
- 4.7 Gradel (NSD Fusion)
 - 4.7.1 Gradel (NSD Fusion) Neutron Generators Company Information
 - 4.7.2 Gradel (NSD Fusion) Neutron Generators Business Overview
- 4.7.3 Gradel (NSD Fusion) Neutron Generators Production, Value and Gross Margin (2019-2024)
- 4.7.4 Gradel (NSD Fusion) Product Portfolio
- 4.7.5 Gradel (NSD Fusion) Recent Developments

5 GLOBAL NEUTRON GENERATORS PRODUCTION BY REGION

- 5.1 Global Neutron Generators Production Estimates and Forecasts by Region: 2019 VS 2023 VS 2030
- 5.2 Global Neutron Generators Production by Region: 2019-2030
- 5.2.1 Global Neutron Generators Production by Region: 2019-2024
- 5.2.2 Global Neutron Generators Production Forecast by Region (2025-2030)
- 5.3 Global Neutron Generators Production Value Estimates and Forecasts by Region: 2019 VS 2023 VS 2030
- 5.4 Global Neutron Generators Production Value by Region: 2019-2030
 - 5.4.1 Global Neutron Generators Production Value by Region: 2019-2024
- 5.4.2 Global Neutron Generators Production Value Forecast by Region (2025-2030)
- 5.5 Global Neutron Generators Market Price Analysis by Region (2019-2024)
- 5.6 Global Neutron Generators Production and Value, YOY Growth
- 5.6.1 North America Neutron Generators Production Value Estimates and Forecasts (2019-2030)
- 5.6.2 Europe Neutron Generators Production Value Estimates and Forecasts (2019-2030)
- 5.6.3 Japan Neutron Generators Production Value Estimates and Forecasts (2019-2030)



5.6.4 Asia-Pacific Neutron Generators Production Value Estimates and Forecasts (2019-2030)

6 GLOBAL NEUTRON GENERATORS CONSUMPTION BY REGION

- 6.1 Global Neutron Generators Consumption Estimates and Forecasts by Region: 2019 VS 2023 VS 2030
- 6.2 Global Neutron Generators Consumption by Region (2019-2030)
 - 6.2.1 Global Neutron Generators Consumption by Region: 2019-2030
 - 6.2.2 Global Neutron Generators Forecasted Consumption by Region (2025-2030)
- 6.3 North America
- 6.3.1 North America Neutron Generators Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
 - 6.3.2 North America Neutron Generators Consumption by Country (2019-2030)
 - 6.3.3 U.S.
 - 6.3.4 Canada
- 6.4 Europe
- 6.4.1 Europe Neutron Generators Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
 - 6.4.2 Europe Neutron Generators Consumption by Country (2019-2030)
 - 6.4.3 Germany
 - 6.4.4 France
 - 6.4.5 U.K.
 - 6.4.6 Italy
- 6.4.7 Russia
- 6.5 Asia Pacific
- 6.5.1 Asia Pacific Neutron Generators Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
 - 6.5.2 Asia Pacific Neutron Generators Consumption by Country (2019-2030)
 - 6.5.3 China
 - 6.5.4 Japan
 - 6.5.5 South Korea
 - 6.5.6 China Taiwan
 - 6.5.7 Southeast Asia
 - 6.5.8 India
 - 6.5.9 Australia
- 6.6 Latin America, Middle East & Africa
- 6.6.1 Latin America, Middle East & Africa Neutron Generators Consumption Growth Rate by Country: 2019 VS 2023 VS 2030



- 6.6.2 Latin America, Middle East & Africa Neutron Generators Consumption by Country (2019-2030)
 - 6.6.3 Mexico
 - 6.6.4 Brazil
 - 6.6.5 Turkey
 - 6.6.5 GCC Countries

7 SEGMENT BY TYPE

- 7.1 Global Neutron Generators Production by Type (2019-2030)
- 7.1.1 Global Neutron Generators Production by Type (2019-2030) & (Units)
- 7.1.2 Global Neutron Generators Production Market Share by Type (2019-2030)
- 7.2 Global Neutron Generators Production Value by Type (2019-2030)
- 7.2.1 Global Neutron Generators Production Value by Type (2019-2030) & (US\$ Million)
 - 7.2.2 Global Neutron Generators Production Value Market Share by Type (2019-2030)
- 7.3 Global Neutron Generators Price by Type (2019-2030)

8 SEGMENT BY APPLICATION

- 8.1 Global Neutron Generators Production by Application (2019-2030)
 - 8.1.1 Global Neutron Generators Production by Application (2019-2030) & (Units)
 - 8.1.2 Global Neutron Generators Production by Application (2019-2030) & (Units)
- 8.2 Global Neutron Generators Production Value by Application (2019-2030)
- 8.2.1 Global Neutron Generators Production Value by Application (2019-2030) & (US\$ Million)
- 8.2.2 Global Neutron Generators Production Value Market Share by Application (2019-2030)
- 8.3 Global Neutron Generators Price by Application (2019-2030)

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET

- 9.1 Neutron Generators Value Chain Analysis
 - 9.1.1 Neutron Generators Key Raw Materials
 - 9.1.2 Raw Materials Key Suppliers
 - 9.1.3 Neutron Generators Production Mode & Process
- 9.2 Neutron Generators Sales Channels Analysis
 - 9.2.1 Direct Comparison with Distribution Share
 - 9.2.2 Neutron Generators Distributors



9.2.3 Neutron Generators Customers

10 GLOBAL NEUTRON GENERATORS ANALYZING MARKET DYNAMICS

- 10.1 Neutron Generators Industry Trends
- 10.2 Neutron Generators Industry Drivers
- 10.3 Neutron Generators Industry Opportunities and Challenges
- 10.4 Neutron Generators Industry Restraints

11 REPORT CONCLUSION

12 DISCLAIMER



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