

Global Neutron Generators Market Size, Manufacturers, Opportunities and Forecast to 2030

<https://marketpublishers.com/r/G5ACC111AAFFEN.html>

Date: April 2024

Pages: 96

Price: US\$ 3,450.00 (Single User License)

ID: G5ACC111AAFFEN

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 estimated at US\$ million in 2023 and is projected to reach a revised size of 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 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

Global Neutron Generators Market Size, Manufacturers, Opportunities and Forecast to 2030

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: Introduces the study scope of this report, executive summary of market segments by type, market size segments for North America, Europe, Asia Pacific, Latin

America, Middle East & Africa.

Chapter 2: 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 3: Detailed analysis of Neutron Generators manufacturers competitive landscape, price, sales, revenue, market share and ranking, latest development plan, merger, and acquisition information, etc.

Chapter 4: Sales, revenue of Neutron Generators in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the future development prospects, and market space in the world.

Chapter 5: Introduces market segments by application, market size segment for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 7, 8, 9, 10 and 11: North America, Europe, Asia Pacific, Latin America, Middle East & Africa, sales and revenue by country.

Chapter 12: Analysis of industrial chain, key raw materials, manufacturing cost, and market dynamics.

Chapter 13: Concluding Insights of the report.

Contents

1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
 - 1.2.1 Global Neutron Generators Market Size Estimates and Forecasts (2019-2030)
 - 1.2.2 Global Neutron Generators Sales Estimates and Forecasts (2019-2030)
- 1.3 Neutron Generators Market by Type
 - 1.3.1 Portable Neutron Generators
 - 1.3.2 Stationary Neutron Generators
- 1.4 Global Neutron Generators Market Size by Type
 - 1.4.1 Global Neutron Generators Market Size Overview by Type (2019-2030)
 - 1.4.2 Global Neutron Generators Historic Market Size Review by Type (2019-2024)
 - 1.4.3 Global Neutron Generators Forecasted Market Size by Type (2025-2030)
- 1.5 Key Regions Market Size by Type
 - 1.5.1 North America Neutron Generators Sales Breakdown by Type (2019-2024)
 - 1.5.2 Europe Neutron Generators Sales Breakdown by Type (2019-2024)
 - 1.5.3 Asia-Pacific Neutron Generators Sales Breakdown by Type (2019-2024)
 - 1.5.4 Latin America Neutron Generators Sales Breakdown by Type (2019-2024)
 - 1.5.5 Middle East and Africa Neutron Generators Sales Breakdown by Type (2019-2024)

2 GLOBAL MARKET DYNAMICS

- 2.1 Neutron Generators Industry Trends
- 2.2 Neutron Generators Industry Drivers
- 2.3 Neutron Generators Industry Opportunities and Challenges
- 2.4 Neutron Generators Industry Restraints

3 MARKET COMPETITIVE LANDSCAPE BY COMPANY

- 3.1 Global Top Players by Neutron Generators Revenue (2019-2024)
- 3.2 Global Top Players by Neutron Generators Sales (2019-2024)
- 3.3 Global Top Players by Neutron Generators Price (2019-2024)
- 3.4 Global Neutron Generators Industry Company Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Neutron Generators Key Company Manufacturing Sites & Headquarters
- 3.6 Global Neutron Generators Company, Product Type & Application
- 3.7 Global Neutron Generators Company Commercialization Time

3.8 Market Competitive Analysis

3.8.1 Global Neutron Generators Market CR5 and HHI

3.8.2 Global Top 5 and 10 Neutron Generators Players Market Share by Revenue in 2023

3.8.3 2023 Neutron Generators Tier 1, Tier 2, and Tier

4 NEUTRON GENERATORS REGIONAL STATUS AND OUTLOOK

4.1 Global Neutron Generators Market Size and CAGR by Region: 2019 VS 2023 VS 2030

4.2 Global Neutron Generators Historic Market Size by Region

4.2.1 Global Neutron Generators Sales in Volume by Region (2019-2024)

4.2.2 Global Neutron Generators Sales in Value by Region (2019-2024)

4.2.3 Global Neutron Generators Sales (Volume & Value), Price and Gross Margin (2019-2024)

4.3 Global Neutron Generators Forecasted Market Size by Region

4.3.1 Global Neutron Generators Sales in Volume by Region (2025-2030)

4.3.2 Global Neutron Generators Sales in Value by Region (2025-2030)

4.3.3 Global Neutron Generators Sales (Volume & Value), Price and Gross Margin (2025-2030)

5 NEUTRON GENERATORS BY APPLICATION

5.1 Neutron Generators Market by Application

5.1.1 Oil Prospecting

5.1.2 Security

5.1.3 Research

5.1.4 Others

5.2 Global Neutron Generators Market Size by Application

5.2.1 Global Neutron Generators Market Size Overview by Application (2019-2030)

5.2.2 Global Neutron Generators Historic Market Size Review by Application (2019-2024)

5.2.3 Global Neutron Generators Forecasted Market Size by Application (2025-2030)

5.3 Key Regions Market Size by Application

5.3.1 North America Neutron Generators Sales Breakdown by Application (2019-2024)

5.3.2 Europe Neutron Generators Sales Breakdown by Application (2019-2024)

5.3.3 Asia-Pacific Neutron Generators Sales Breakdown by Application (2019-2024)

5.3.4 Latin America Neutron Generators Sales Breakdown by Application (2019-2024)

5.3.5 Middle East and Africa Neutron Generators Sales Breakdown by Application

(2019-2024)

6 COMPANY PROFILES

6.1 Phoenix

6.1.1 Phoenix Company Information

6.1.2 Phoenix Business Overview

6.1.3 Phoenix Neutron Generators Sales, Revenue and Gross Margin (2019-2024)

6.1.4 Phoenix Neutron Generators Product Portfolio

6.1.5 Phoenix Recent Developments

6.2 Sodern

6.2.1 Sodern Company Information

6.2.2 Sodern Business Overview

6.2.3 Sodern Neutron Generators Sales, Revenue and Gross Margin (2019-2024)

6.2.4 Sodern Neutron Generators Product Portfolio

6.2.5 Sodern Recent Developments

6.3 Thermo Fisher Scientific

6.3.1 Thermo Fisher Scientific Company Information

6.3.2 Thermo Fisher Scientific Business Overview

6.3.3 Thermo Fisher Scientific Neutron Generators Sales, Revenue and Gross Margin
(2019-2024)

6.3.4 Thermo Fisher Scientific Neutron Generators Product Portfolio

6.3.5 Thermo Fisher Scientific Recent Developments

6.4 VNIIA

6.4.1 VNIIA Company Information

6.4.2 VNIIA Business Overview

6.4.3 VNIIA Neutron Generators Sales, Revenue and Gross Margin (2019-2024)

6.4.4 VNIIA Neutron Generators Product Portfolio

6.4.5 VNIIA Recent Developments

6.5 Adelphi Technology

6.5.1 Adelphi Technology Company Information

6.5.2 Adelphi Technology Business Overview

6.5.3 Adelphi Technology Neutron Generators Sales, Revenue and Gross Margin
(2019-2024)

6.5.4 Adelphi Technology Neutron Generators Product Portfolio

6.5.5 Adelphi Technology Recent Developments

6.6 AMETEK ORTEC

6.6.1 AMETEK ORTEC Company Information

6.6.2 AMETEK ORTEC Business Overview

6.6.3 AMETEK ORTEC Neutron Generators Sales, Revenue and Gross Margin (2019-2024)

6.6.4 AMETEK ORTEC Neutron Generators Product Portfolio

6.6.5 AMETEK ORTEC Recent Developments

6.7 Gradel (NSD Fusion)

6.7.1 Gradel (NSD Fusion) Company Information

6.7.2 Gradel (NSD Fusion) Business Overview

6.7.3 Gradel (NSD Fusion) Neutron Generators Sales, Revenue and Gross Margin (2019-2024)

6.7.4 Gradel (NSD Fusion) Neutron Generators Product Portfolio

6.7.5 Gradel (NSD Fusion) Recent Developments

7 NORTH AMERICA BY COUNTRY

7.1 North America Neutron Generators Sales by Country

7.1.1 North America Neutron Generators Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

7.1.2 North America Neutron Generators Sales by Country (2019-2024)

7.1.3 North America Neutron Generators Sales Forecast by Country (2025-2030)

7.2 North America Neutron Generators Market Size by Country

7.2.1 North America Neutron Generators Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

7.2.2 North America Neutron Generators Market Size by Country (2019-2024)

7.2.3 North America Neutron Generators Market Size Forecast by Country (2025-2030)

8 EUROPE BY COUNTRY

8.1 Europe Neutron Generators Sales by Country

8.1.1 Europe Neutron Generators Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.1.2 Europe Neutron Generators Sales by Country (2019-2024)

8.1.3 Europe Neutron Generators Sales Forecast by Country (2025-2030)

8.2 Europe Neutron Generators Market Size by Country

8.2.1 Europe Neutron Generators Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.2.2 Europe Neutron Generators Market Size by Country (2019-2024)

8.2.3 Europe Neutron Generators Market Size Forecast by Country (2025-2030)

9 ASIA-PACIFIC BY COUNTRY

9.1 Asia-Pacific Neutron Generators Sales by Country

9.1.1 Asia-Pacific Neutron Generators Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.1.2 Asia-Pacific Neutron Generators Sales by Country (2019-2024)

9.1.3 Asia-Pacific Neutron Generators Sales Forecast by Country (2025-2030)

9.2 Asia-Pacific Neutron Generators Market Size by Country

9.2.1 Asia-Pacific Neutron Generators Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.2.2 Asia-Pacific Neutron Generators Market Size by Country (2019-2024)

9.2.3 Asia-Pacific Neutron Generators Market Size Forecast by Country (2025-2030)

10 LATIN AMERICA BY COUNTRY

10.1 Latin America Neutron Generators Sales by Country

10.1.1 Latin America Neutron Generators Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

10.1.2 Latin America Neutron Generators Sales by Country (2019-2024)

10.1.3 Latin America Neutron Generators Sales Forecast by Country (2025-2030)

10.2 Latin America Neutron Generators Market Size by Country

10.2.1 Latin America Neutron Generators Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

10.2.2 Latin America Neutron Generators Market Size by Country (2019-2024)

10.2.3 Latin America Neutron Generators Market Size Forecast by Country (2025-2030)

11 MIDDLE EAST AND AFRICA BY COUNTRY

11.1 Middle East and Africa Neutron Generators Sales by Country

11.1.1 Middle East and Africa Neutron Generators Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

11.1.2 Middle East and Africa Neutron Generators Sales by Country (2019-2024)

11.1.3 Middle East and Africa Neutron Generators Sales Forecast by Country (2025-2030)

11.2 Middle East and Africa Neutron Generators Market Size by Country

11.2.1 Middle East and Africa Neutron Generators Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

11.2.2 Middle East and Africa Neutron Generators Market Size by Country

(2019-2024)

11.2.3 Middle East and Africa Neutron Generators Market Size Forecast by Country

(2025-2030)

12 VALUE CHAIN AND SALES CHANNELS ANALYSIS

12.1 Neutron Generators Value Chain Analysis

12.1.1 Neutron Generators Key Raw Materials

12.1.2 Key Raw Materials Price

12.1.3 Raw Materials Key Suppliers

12.1.4 Manufacturing Cost Structure

12.1.5 Neutron Generators Production Mode & Process

12.2 Neutron Generators Sales Channels Analysis

12.2.1 Direct Comparison with Distribution Share

12.2.2 Neutron Generators Distributors

12.2.3 Neutron Generators Customers

13 CONCLUDING INSIGHTS

14 APPENDIX

14.1 Reasons for Doing This Study

14.2 Research Methodology

14.3 Research Process

14.4 Authors List of This Report

14.5 Data Source

14.5.1 Secondary Sources

14.5.2 Primary Sources

14.6 Disclaimer

I would like to order

Product name: Global Neutron Generators Market Size, Manufacturers, Opportunities and Forecast to 2030

Product link: <https://marketpublishers.com/r/G5ACC111A AFFEN.html>

Price: US\$ 3,450.00 (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/G5ACC111A AFFEN.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

