

Global Neutron Generators Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

https://marketpublishers.com/r/G889B4EF2E8FEN.html

Date: April 2024 Pages: 136 Price: US\$ 3,950.00 (Single User License) ID: G889B4EF2E8FEN

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 is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

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%.

In terms of production side, this report researches the Neutron Generators production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.



In terms of consumption side, this report focuses on the sales of Neutron Generators by region (region level and country level), by company, by type and by application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for Neutron Generators, capacity, output, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Neutron Generators, also provides the consumption of main regions and countries. Of the upcoming market potential for Neutron Generators, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Neutron Generators sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Neutron Generators market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by type and by application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Neutron Generators sales, projected growth trends, production technology, application and end-user industry.

Descriptive company profiles of the major global players, including Phoenix, Sodern, Thermo Fisher Scientific, VNIIA, Adelphi Technology, AMETEK ORTEC and Gradel (NSD Fusion), etc.

Neutron Generators segment by Company

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

Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.

2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.

3. To split the breakdown data by regions, type, manufacturers, and Application.

4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.

5. To identify significant trends, drivers, influence factors in global and regions.

6. To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

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: Provides an overview of the Neutron Generators market, including product definition, global market growth prospects, production value, capacity, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Neutron Generators industry.

Chapter 3: Detailed analysis of Neutron Generators market competition landscape. Including Neutron Generators manufacturers' output value, output and average price from 2019 to 2024, as well as competition analysis indicators such as origin, product type, application, merger and acquisition information, etc.

Chapter 4: 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 5: 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 6: 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 7: Production/Production Value of Neutron Generators by region. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 8: 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 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights of the report.



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