

# **Global Nitrogen Generators Market Size study & Forecast, by Type (PSA Nitrogen Generator, Membrane Nitrogen Generator, Cryogenic Nitrogen Generator), by End User (Food and Beverage, Transportation, Medical and Pharmaceuticals, Electrical and Electronics, Chemicals, Others) and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Nitrogen Generators Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% during the forecast period 2023-2030. A nitrogen generator is a device that produces nitrogen gas from ambient air, typically by utilizing either membrane technology or Pressure Swing Adsorption (PSA). Nitrogen generators are used to generate high-purity nitrogen gas on-site, eliminating the need for traditional methods of obtaining nitrogen, such as cylinder delivery or liquid nitrogen tanks. The key factors driving the market growth are growing environmental and safety concerns, a rise in oil and gas exploration and production, and a rise in industrialization that is anticipated to create the lucrative demand for the market during the forecast period 2023-2030.

Additionally, the oil and gas industry's growing need for nitrogen in well drilling, enhanced oil recovery, and other processes is a significant driver for nitrogen generator adoption. As oil and gas exploration activities increase, so does the demand for on-site nitrogen generation. According to Statista, in 2020, the oil production in the United States was 713.3 million metric tons and the oil exploration activities increased significantly and the oil production reached 759.5 million metric tons in 2022. As a result, the rising oil exploration activities are anticipated to create a lucrative demand for the market over the forecast period. Moreover, ongoing advancements in nitrogen

generator technologies, such as improvements in membrane systems, PSA systems, and energy efficiency and growth in the popularity of sustainable development are anticipated to create lucrative opportunities for the market. However, the high initial investment stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Nitrogen Generators Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing industrial activities across various sectors, the growing oil and gas industry, and the presence of key market players. Whereas, the Asia Pacific is expected to grow with the fastest growth rate over the forecast period, owing to factors such as the rising awareness of on-site gas generation, increasing focus on food packaging and processing, growing demand in healthcare & research, and supportive government initiatives and investments.

Major market player included in this report are:

Parker-Hannifin Corporation

NOVAIR SAS

Linde plc

Air Products and Chemicals, Inc.

Atlas Copco AB

On Site Gas Systems, Inc.

Peak Scientific Instruments

Hitachi Ltd. (Hitachi Industrial Equipment Systems Co., Ltd.)

Air Liquide

PCI Gases

Recent Developments in the Market:

In March 2020, Gardner Denver Holdings Inc. has successfully finalized the

merger with the Ingersoll Rand Industrial segment, strategically enhancing its portfolio to deliver a more robust range of mission-critical products and services across industrial, energy, medical, and specialty vehicle sectors.

#### Global Nitrogen Generators Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Type, End User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

PSA Nitrogen Generator

Membrane Nitrogen Generator

Cryogenic Nitrogen Generator

By End User:

Food and Beverage

Transportation

Medical and Pharmaceuticals

Electrical and Electronics

Chemicals

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

## Contents

### **CHAPTER 1. EXECUTIVE SUMMARY**

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
  - 1.2.1. Nitrogen Generators Market, by Region, 2020-2030 (USD Billion)
  - 1.2.2. Nitrogen Generators Market, by Type, 2020-2030 (USD Billion)
  - 1.2.3. Nitrogen Generators Market, by End User, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

### **CHAPTER 2. GLOBAL NITROGEN GENERATORS MARKET DEFINITION AND SCOPE**

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
  - 2.2.1. Industry Evolution
  - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

### **CHAPTER 3. GLOBAL NITROGEN GENERATORS MARKET DYNAMICS**

- 3.1. Nitrogen Generators Market Impact Analysis (2020-2030)
  - 3.1.1. Market Drivers
    - 3.1.1.1. Growing environmental and safety concerns
    - 3.1.1.2. Rise in oil and gas exploration and production
    - 3.1.1.3. Rise in industrialization
  - 3.1.2. Market Challenges
    - 3.1.2.1. High initial investment
  - 3.1.3. Market Opportunities
    - 3.1.3.1. Growing advancements in nitrogen generator technologies
    - 3.1.3.2. Growth in popularity of sustainable development

### **CHAPTER 4. GLOBAL NITROGEN GENERATORS MARKET INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
  - 4.3.1. Political
  - 4.3.2. Economical
  - 4.3.3. Social
  - 4.3.4. Technological
  - 4.3.5. Environmental
  - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL NITROGEN GENERATORS MARKET, BY TYPE**

- 5.1. Market Snapshot
- 5.2. Global Nitrogen Generators Market by Type, Performance - Potential Analysis
- 5.3. Global Nitrogen Generators Market Estimates & Forecasts by Type 2020-2030 (USD Billion)
- 5.4. Nitrogen Generators Market, Sub Segment Analysis
  - 5.4.1. PSA Nitrogen Generator
  - 5.4.2. Membrane Nitrogen Generator
  - 5.4.3. Cryogenic Nitrogen Generator

## **CHAPTER 6. GLOBAL NITROGEN GENERATORS MARKET, BY END USER**

- 6.1. Market Snapshot
- 6.2. Global Nitrogen Generators Market by End User, Performance - Potential Analysis
- 6.3. Global Nitrogen Generators Market Estimates & Forecasts by End User 2020-2030 (USD Billion)
- 6.4. Nitrogen Generators Market, Sub Segment Analysis
  - 6.4.1. Food and Beverage

- 6.4.2. Transportation
- 6.4.3. Medical and Pharmaceuticals
- 6.4.4. Electrical and Electronics
- 6.4.5. Chemicals
- 6.4.6. Others

## **CHAPTER 7. GLOBAL NITROGEN GENERATORS MARKET, REGIONAL ANALYSIS**

- 7.1. Top Leading Countries
- 7.2. Top Emerging Countries
- 7.3. Nitrogen Generators Market, Regional Market Snapshot
- 7.4. North America Nitrogen Generators Market
  - 7.4.1. U.S. Nitrogen Generators Market
    - 7.4.1.1. Type breakdown estimates & forecasts, 2020-2030
    - 7.4.1.2. End User breakdown estimates & forecasts, 2020-2030
  - 7.4.2. Canada Nitrogen Generators Market
- 7.5. Europe Nitrogen Generators Market Snapshot
  - 7.5.1. U.K. Nitrogen Generators Market
  - 7.5.2. Germany Nitrogen Generators Market
  - 7.5.3. France Nitrogen Generators Market
  - 7.5.4. Spain Nitrogen Generators Market
  - 7.5.5. Italy Nitrogen Generators Market
  - 7.5.6. Rest of Europe Nitrogen Generators Market
- 7.6. Asia-Pacific Nitrogen Generators Market Snapshot
  - 7.6.1. China Nitrogen Generators Market
  - 7.6.2. India Nitrogen Generators Market
  - 7.6.3. Japan Nitrogen Generators Market
  - 7.6.4. Australia Nitrogen Generators Market
  - 7.6.5. South Korea Nitrogen Generators Market
  - 7.6.6. Rest of Asia Pacific Nitrogen Generators Market
- 7.7. Latin America Nitrogen Generators Market Snapshot
  - 7.7.1. Brazil Nitrogen Generators Market
  - 7.7.2. Mexico Nitrogen Generators Market
- 7.8. Middle East & Africa Nitrogen Generators Market
  - 7.8.1. Saudi Arabia Nitrogen Generators Market
  - 7.8.2. South Africa Nitrogen Generators Market
  - 7.8.3. Rest of Middle East & Africa Nitrogen Generators Market



## **CHAPTER 8. COMPETITIVE INTELLIGENCE**

### 8.1. Key Company SWOT Analysis

8.1.1. Company

8.1.2. Company

8.1.3. Company

### 8.2. Top Market Strategies

### 8.3. Company Profiles

8.3.1. Parker-Hannifin Corporation

8.3.1.1. Key Information

8.3.1.2. Overview

8.3.1.3. Financial (Subject to Data Availability)

8.3.1.4. Product Summary

8.3.1.5. Recent Developments

8.3.2. NOVAIR SAS

8.3.3. Linde plc

8.3.4. Air Products and Chemicals, Inc.

8.3.5. Atlas Copco AB

8.3.6. On Site Gas Systems, Inc.

8.3.7. Peak Scientific Instruments

8.3.8. Hitachi Ltd. (Hitachi Industrial Equipment Systems Co., Ltd.)

8.3.9. Air Liquide

8.3.10. PCI Gases

## **CHAPTER 9. RESEARCH PROCESS**

### 9.1. Research Process

9.1.1. Data Mining

9.1.2. Analysis

9.1.3. Market Estimation

9.1.4. Validation

9.1.5. Publishing

### 9.2. Research Attributes

### 9.3. Research Assumption

## List Of Tables

### LIST OF TABLES

TABLE 1. Global Nitrogen Generators Market, report scope

TABLE 2. Global Nitrogen Generators Market estimates & forecasts by region  
2020-2030 (USD Billion)

TABLE 3. Global Nitrogen Generators Market estimates & forecasts by Type 2020-2030  
(USD Billion)

TABLE 4. Global Nitrogen Generators Market estimates & forecasts by End User  
2020-2030 (USD Billion)

TABLE 5. Global Nitrogen Generators Market by segment, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 6. Global Nitrogen Generators Market by region, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 7. Global Nitrogen Generators Market by segment, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 8. Global Nitrogen Generators Market by region, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 9. Global Nitrogen Generators Market by segment, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 10. Global Nitrogen Generators Market by region, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 11. Global Nitrogen Generators Market by segment, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 12. Global Nitrogen Generators Market by region, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 13. Global Nitrogen Generators Market by segment, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 14. Global Nitrogen Generators Market by region, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 15. U.S. Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD  
Billion)

TABLE 16. U.S. Nitrogen Generators Market estimates & forecasts by segment  
2020-2030 (USD Billion)

TABLE 17. U.S. Nitrogen Generators Market estimates & forecasts by segment  
2020-2030 (USD Billion)

TABLE 18. Canada Nitrogen Generators Market estimates & forecasts, 2020-2030  
(USD Billion)

TABLE 19. Canada Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 20. Canada Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 21. UK Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 22. UK Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 23. UK Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. Germany Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 25. Germany Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 26. Germany Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. France Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 28. France Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 29. France Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. Italy Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 31. Italy Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 32. Italy Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Spain Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 34. Spain Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 35. Spain Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. RoE Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 37. RoE Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 38. RoE Nitrogen Generators Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 39. China Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 40. China Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 41. China Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 42. India Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 43. India Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 44. India Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. Japan Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 46. Japan Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 47. Japan Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. South Korea Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 49. South Korea Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 50. South Korea Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. Australia Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 52. Australia Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 53. Australia Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. RoAPAC Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 55. RoAPAC Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 56. RoAPAC Nitrogen Generators Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. Brazil Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 58. Brazil Nitrogen Generators Market estimates & forecasts by segment  
2020-2030 (USD Billion)

TABLE 59. Brazil Nitrogen Generators Market estimates & forecasts by segment  
2020-2030 (USD Billion)

TABLE 60. Mexico Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD  
Billion)

TABLE 61. Mexico Nitrogen Generators Market estimates & forecasts by segment  
2020-2030 (USD Billion)

TABLE 62. Mexico Nitrogen Generators Market estimates & forecasts by segment  
2020-2030 (USD Billion)

TABLE 63. RoLA Nitrogen Generators Market estimates & forecasts, 2020-2030 (USD  
Billion)

TABLE 64. RoLA Nitrogen Generators Market estimates & forecasts by segment  
2020-2030 (USD Billion)

TABLE 65. RoLA Nitrogen Generators Market estimates & forecasts by segment  
2020-2030 (USD Billion)

TABLE 66. Saudi Arabia Nitrogen Generators Market estimates & forecasts, 2020-2030  
(USD Billion)

TABLE 67. South Africa Nitrogen Generators Market estimates & forecasts by segment  
2020-2030 (USD Billion)

TABLE 68. RoMEA Nitrogen Generators Market estimates & forecasts by segment  
2020-2030 (USD Billion)

TABLE 69. List of secondary sources, used in the study of global Nitrogen Generators  
Market

TABLE 70. List of primary sources, used in the study of global Nitrogen Generators  
Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final  
deliverable

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Nitrogen Generators Market, research methodology
  - FIG 2. Global Nitrogen Generators Market, Market estimation techniques
  - FIG 3. Global Market size estimates & forecast methods
  - FIG 4. Global Nitrogen Generators Market, key trends 2022
  - FIG 5. Global Nitrogen Generators Market, growth prospects 2023-2030
  - FIG 6. Global Nitrogen Generators Market, porters 5 force model
  - FIG 7. Global Nitrogen Generators Market, pest analysis
  - FIG 8. Global Nitrogen Generators Market, value chain analysis
  - FIG 9. Global Nitrogen Generators Market by segment, 2020 & 2030 (USD Billion)
  - FIG 10. Global Nitrogen Generators Market by segment, 2020 & 2030 (USD Billion)
  - FIG 11. Global Nitrogen Generators Market by segment, 2020 & 2030 (USD Billion)
  - FIG 12. Global Nitrogen Generators Market by segment, 2020 & 2030 (USD Billion)
  - FIG 13. Global Nitrogen Generators Market by segment, 2020 & 2030 (USD Billion)
  - FIG 14. Global Nitrogen Generators Market, regional snapshot 2020 & 2030
  - FIG 15. North America Nitrogen Generators Market 2020 & 2030 (USD Billion)
  - FIG 16. Europe Nitrogen Generators Market 2020 & 2030 (USD Billion)
  - FIG 17. Asia pacific Nitrogen Generators Market 2020 & 2030 (USD Billion)
  - FIG 18. Latin America Nitrogen Generators Market 2020 & 2030 (USD Billion)
  - FIG 19. Middle East & Africa Nitrogen Generators Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

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