

# Global Nitrogen Rejection Units Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Nitrogen Rejection Units market size was valued at USD 1761.6 million in 2023 and is forecast to a readjusted size of USD 2650.5 million by 2030 with a CAGR of 6.0% during review period.

Nitrogen Rejection Unit (NRU) separates and vents Nitrogen (N<sub>2</sub>) to the atmosphere, while returning recovered hydrocarbon streams to the main liquefaction process or routing to fuel.

A Nitrogen Rejection Unit (NRU) is a critical piece of infrastructure in natural gas processing. It is used to remove nitrogen from natural gas to meet pipeline specifications or to improve the heating value of the gas. Most pipeline standards require that natural gas contain less than 4% nitrogen. High-nitrogen natural gas is essentially stranded, as it cannot feasibly be transported through pipelines to market. If there is too much nitrogen present in a pipeline, there is a danger of vapor lock or poor combustion. Nitrogen is non-combustible and dilutes the heating value of natural gas, so its removal increases the quality and value of the gas.

Global 5 largest manufacturers of Nitrogen Rejection Unit are Chart Industries, ConocoPhillips and Linde Engineering, which make up over 50%.

North America is the largest market, holding a share over 45%.

There are two types of technology used in the natural gas industry to remove nitrogen from natural gas streams, including Warm Nitrogen Rejection Units and Cold Nitrogen Rejection Units. The leading type is Cold Nitrogen Rejection Unit, with a market share

over 70%.

In terms of application, Nitrogen Rejection Unit is mainly used in raw natural gas and renewable natural gas. The largest segment is renewable natural gas, accounting for nearly 70%.

The Global Info Research report includes an overview of the development of the Nitrogen Rejection Units industry chain, the market status of Raw Natural Gas (Warm NRU, Cold NRU), Renewable Natural Gas (Warm NRU, Cold NRU), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Nitrogen Rejection Units.

Regionally, the report analyzes the Nitrogen Rejection Units markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Nitrogen Rejection Units market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Nitrogen Rejection Units market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Nitrogen Rejection Units industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Warm NRU, Cold NRU).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Nitrogen Rejection Units market.

**Regional Analysis:** The report involves examining the Nitrogen Rejection Units market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour

to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Nitrogen Rejection Units market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Nitrogen Rejection Units:

**Company Analysis:** Report covers individual Nitrogen Rejection Units manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Nitrogen Rejection Units. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Raw Natural Gas, Renewable Natural Gas).

**Technology Analysis:** Report covers specific technologies relevant to Nitrogen Rejection Units. It assesses the current state, advancements, and potential future developments in Nitrogen Rejection Units areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Nitrogen Rejection Units market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Nitrogen Rejection Units market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

## Market segment by Type

Warm NRU

Cold NRU

#### Market segment by Application

Raw Natural Gas

Renewable Natural Gas

#### Major players covered

Chart Industries

ConocoPhillips

Linde Engineering

Air Liquide

Honeywell

Bechtel

Saulsbury Industries

Costain

Ecospray

BCCK

Membrane Technology and Research

Zechstein Midstream

GI Dynamics

Sep-Pro Systems

Azota Gas Processing

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Nitrogen Rejection Units product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nitrogen Rejection Units, with price, sales, revenue and global market share of Nitrogen Rejection Units from 2019 to 2024.

Chapter 3, the Nitrogen Rejection Units competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nitrogen Rejection Units breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Nitrogen Rejection Units market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Nitrogen Rejection Units.

Chapter 14 and 15, to describe Nitrogen Rejection Units sales channel, distributors, customers, research findings and conclusion.

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