

# Gas Separation Membrane Market Size Will Achieve USD 2188.5 million By 2033 – Data Analysis by Emergen Research

*The gas separation membrane market is expected to grow from an estimated USD 1141.5 million in 2024 to USD 2188.5 million in 2033, at a CAGR of 7.50%.*

VANCOUVER, BC, CANADA, January 16, 2025 /EINPresswire.com/ -- The [Gas Separation Membrane Market](#) is expected to grow from an estimated USD 1141.5 million in 2024 to USD 2188.5 million in 2033, at a CAGR of 7.50%. Gas separation membrane is on the growth trajectory which is high, owing to the membrane technology

innovation and the emphasis placed on energy-efficient solutions. Currently, the market trend is dominated by membrane technology as the operational costs are low and the amount of energy utilized also small compared to traditional separation techniques such as cryogenic distillation. These are necessary for the operation of industries in natural gas processing, biogas upgrading, air separation, and CO<sub>2</sub> removal where, assisted by such membranes, gases like nitrogen, oxygen, hydrogen, and carbon dioxide are industrially separated with high efficiency.

Different factors are driving the growth of the market. Among the most outstanding drivers is the increased call for cleaner energy coupled with an intensification of environmental standards. As increased pressures are made to cut down on carbon footprint, companies are turning to gas separation membranes for industrial processes such as the extraction of CO<sub>2</sub> and enhanced oil recovery.

The Gas Separation Membrane Market report contains an in-depth analysis of the historical, current, and projected revenues for every industry vertical, segment, end-use industries, applications, and regions. The pandemic has dynamically affected all aspects of life on a global scale along with drastic changes in the economy and market conditions. The report covers the currently fluctuating market scenario along with present and future assessment of the COVID-19 impact. The report encompasses the historical data, company overview, financial standing, and



necessary information about the new and key players of the market.

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### Key Drivers of Market Growth

The growing demand for energy-efficient and environmentally friendly gas separation technologies is a significant driver for the market. Rising global energy consumption and stringent environmental regulations have prompted industries to adopt cleaner technologies, including gas separation membranes, to reduce greenhouse gas emissions. The increasing use of natural gas as a cleaner alternative to other fossil fuels has further boosted the demand for membranes in natural gas processing. In addition, the adoption of carbon capture and storage (CCS) technologies to combat climate change is driving the development of advanced membranes for CO<sub>2</sub> separation. Innovations in membrane materials, such as polymeric and mixed-matrix membranes, are enhancing separation efficiency and broadening application scopes.

### Restraints in the Market

Despite its potential, the gas separation membrane market faces certain challenges. High initial investment costs and limited membrane lifespans can hinder adoption, particularly in cost-sensitive industries. Performance limitations, such as lower selectivity and permeability compared to traditional methods, remain a concern for some applications. Moreover, the availability of alternative technologies, including cryogenic distillation and adsorption-based systems, can pose competition. Scalability issues and the need for consistent maintenance in large-scale applications are additional restraints.

### Major Companies and Competitive Landscape:

Air Products and Chemicals, Inc., Membrane Technology and Research, Inc., Linde PLC, Toray Industries, Inc., 3M, Evonik Industries, Koch Membrane Systems, Pall Corporation, Ube Industries, Ltd., The Dow Chemical Company

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The report provides a thorough estimation of the overall impact of the pandemic on the Gas Separation Membrane Market and its vital segments. The report also discusses the impact of the pandemic across different regions of the market. It also offers a current and future assessment of the impact of the pandemic on the Gas Separation Membrane Market

## Growth Factors and Opportunities

The increasing emphasis on hydrogen economy and green energy solutions is creating significant growth opportunities for the gas separation membrane market. Hydrogen purification and production are emerging as critical applications, with membranes being key components in fuel cell technologies. Expanding applications in biogas upgrading and the separation of valuable gases like helium and nitrogen also present lucrative prospects. Emerging markets in Asia-Pacific, the Middle East, and Africa are witnessing rising investments in industrial gas applications, offering a favorable growth environment. Collaboration between membrane manufacturers and end-user industries is fostering innovation and expanding market reach.

### How will this Report Benefit you?

A 250-page report from Emergen Research includes 194 tables and 189 charts and graphics. Anyone in need of commercial, in-depth assessments for the global Gas Separation Membrane Market, as well as comprehensive market segment analysis, can benefit from our new study. You can assess the whole regional and global market for Gas Separation Membrane Market with the aid of our recent study. To increase market share, obtain financial analysis of the whole market and its various segments. We think there are significant prospects in this industry for rapidly expanding energy storage technology. Look at how you may utilise the current and potential revenue-generating prospects in this sector. The research will also assist you in making better strategic decisions, enabling you to build growth strategies, strengthen competitor analysis, and increase business productivity.

### Gas Separation Membrane Market Segmentation Analysis

#### By Material Type Outlook (Revenue, USD Million; 2020-2033)

Polyimide & Polyaramide

Polysulfone

Cellulose Acetate

Others

#### By Module Outlook (Revenue, USD Million; 2020-2033)

Spiral Wound

Hollow Fiber

Plate & Frame

Others

By Application Outlook (Revenue, USD Million; 2020-2033)

Nitrogen Generation & Oxygen Enrichment

Hydrogen Recovery

Carbon Dioxide Removal

Vapor/Gas Separation

Vapor/Vapor Separation

Air Dehydration

H<sub>2</sub>S Removal

Others

By Regional Outlook (Revenue, USD Million; 2020-2033)

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

Benelux

Rest of Europe

Asia-Pacific

China

India

Japan

South Korea

Rest of Asia-Pacific

Latin America

Brazil

Rest of Latin America

Middle East and Africa

Saudi Arabia

UAE

South Africa

Turkey

Rest of MEA

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Eric Lee

Emergen Research

+ +91 90210 91709

sales@emergenresearch.com

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