

Global Membrane Separation for Biogas Upgrading Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Membrane Separation for Biogas Upgrading competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Membrane separation for biogas upgrading refers to a process used to purify biogas by selectively removing carbon dioxide (CO₂) and other impurities. Biogas produced from organic materials through anaerobic digestion typically contains methane (CH₄) as the main component, along with varying levels of CO₂, water vapor, hydrogen sulfide (H₂S), and other trace gases. In 2024, global Membrane Separation for Biogas Upgrading production reached approximately 166 k units with an average global market price of around US\$ 800 per unit. The production capacity for Membrane Separation for Biogas Upgrading in 2024 was approximately 180 k units. The typical gross profit margin for Membrane Separation for Biogas Upgrading is between 20% and 40%. The membrane separation market for biogas upgrading is expanding steadily, driven by the growing demand for renewable energy, supportive environmental policies, and the global shift toward low-carbon technologies. Membrane upgrading systems offer high efficiency, modular design, and low operating costs for separating CO₂ and impurities from raw biogas to produce high-purity biomethane. They are widely adopted in agricultural biogas plants, municipal waste treatment facilities, industrial organic waste projects, and decentralized energy systems, making membrane technology one of the fastest-growing upgrading solutions in the biomethane sector. Downstream applications of membrane separation for biogas upgrading mainly include biomethane injection into natural gas grids, vehicle fuel supply for compressed biomethane (Bio-CNG/Bio-LNG), onsite power generation, industrial heating, and combined heat and power (CHP) systems. The high-purity biomethane produced by membrane upgrading is widely used in municipal waste treatment plants, agricultural biogas projects, food-

processing waste digestion, and renewable fuel programs, supporting clean energy deployment and carbon-reduction initiatives across multiple sectors.

The global Membrane Separation for Biogas Upgrading market size was estimated at USD 133.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Membrane Separation for Biogas Upgrading market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Membrane Separation for Biogas Upgrading market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Membrane Separation for Biogas Upgrading market.

Global Membrane Separation for Biogas Upgrading Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the

unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Air Liquide
Air Products
UBE Corporation
Evonik
Grasys
Airrane
Generon IGS
Pentair
Prodeval
Bright Renewables
Greenlane Biogas
DMT
Tianbang

Market Segmentation (by Type)

Polymer Membranes
Inorganic Membranes
Hybrid Matrix Membranes

Market Segmentation (by Application)

Agriculture & Livestock
Municipal Solid Waste
Wastewater Treatment Plants
Industrial Biogas
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Membrane Separation for Biogas Upgrading Market
Overview of the regional outlook of the Membrane Separation for Biogas Upgrading Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Membrane Separation for Biogas Upgrading Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the 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 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to 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 8 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 capacity of each country in the world.

Chapter 9 shares the main producing countries of Membrane Separation for Biogas Upgrading, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing

plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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