

Global Membrane Separation for Biogas Upgrading Market Growth 2026-2032

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Abstracts

The global Membrane Separation for Biogas Upgrading market size is predicted to grow from US\$ 146 million in 2025 to US\$ 220 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "Membrane Separation for Biogas Upgrading Industry Forecast" looks at past sales and reviews total world Membrane Separation for Biogas Upgrading sales in 2025, providing a comprehensive analysis by region and market sector of projected Membrane Separation for Biogas Upgrading sales for 2026 through 2032. With Membrane Separation for Biogas Upgrading sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Membrane Separation for Biogas Upgrading industry.

This Insight Report provides a comprehensive analysis of the global Membrane Separation for Biogas Upgrading landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Membrane Separation for Biogas Upgrading portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Membrane Separation for Biogas Upgrading market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Membrane Separation for Biogas Upgrading and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Membrane Separation for Biogas Upgrading.

This report presents a comprehensive overview, market shares, and growth opportunities of Membrane Separation for Biogas Upgrading market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Polymer Membranes

Inorganic Membranes

Hybrid Matrix Membranes

Segmentation by Structural:

Hollow-fiber

Spiral-wound

Segmentation by Material:

Polyimide

Polysulfone

Cellulose Acetate

PEI

Others

Segmentation by Application:

Agriculture & Livestock

Municipal Solid Waste

Wastewater Treatment Plants

Industrial Biogas

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Air Liquide

Air Products

UBE Corporation

Evonik

Grasys

Airrane

Generon IGS

Pentair

Prodeval

Bright Renewables

Greenlane Biogas

DMT

Tianbang

Key Questions Addressed in this Report

What is the 10-year outlook for the global Membrane Separation for Biogas Upgrading market?

What factors are driving Membrane Separation for Biogas Upgrading market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Membrane Separation for Biogas Upgrading market opportunities vary by end market size?

How does Membrane Separation for Biogas Upgrading break out by Type, by Application?

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