

Global CO₂ Separation Membrane for Biogas Upgrading Market Growth 2026-2032

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Abstracts

The global CO₂ Separation Membrane 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.

A CO₂ separation membrane for biogas upgrading refers to a specialized type of membrane used to selectively remove carbon dioxide (CO₂) from biogas, thereby increasing the methane (CH₄) content to produce high-quality biomethane. This process is crucial for upgrading raw biogas generated from anaerobic digestion of organic materials into a cleaner and more valuable fuel suitable for injection into natural gas pipelines or other commercial uses. In 2024, global CO₂ Separation Membrane 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 CO₂ Separation Membrane for Biogas Upgrading in 2024 was approximately 180 k units. The typical gross profit margin for CO₂ Separation Membrane for Biogas Upgrading is between 20% and 40%. CO₂ separation membranes for biogas upgrading are widely used in downstream applications such as agricultural biogas plants, municipal solid waste and wastewater treatment facilities, food and beverage industry digestion systems, and industrial organic waste-to-energy projects. These membranes enable efficient removal of CO₂ and other impurities to produce high-purity biomethane, supporting renewable natural gas injection into gas grids, vehicle fuel production, and decentralized clean energy systems across multiple sectors.

The CO₂ separation membrane market for biogas upgrading is growing rapidly due to increasing demand for renewable energy and stringent environmental regulations. These membranes are used to remove carbon dioxide from raw biogas, producing high-purity methane suitable for injection into the natural gas grid or use as vehicle fuel. Key

end-user industries include agricultural biogas plants, wastewater treatment facilities, and industrial organic waste processing. The market is driven by the need for efficient biogas purification, energy recovery, and reduction of greenhouse gas emissions.

LP Information, Inc. (LPI) ' newest research report, the "CO₂ Separation Membrane for Biogas Upgrading Industry Forecast" looks at past sales and reviews total world CO₂ Separation Membrane for Biogas Upgrading sales in 2025, providing a comprehensive analysis by region and market sector of projected CO₂ Separation Membrane for Biogas Upgrading sales for 2026 through 2032. With CO₂ Separation Membrane 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 CO₂ Separation Membrane for Biogas Upgrading industry.

This Insight Report provides a comprehensive analysis of the global CO₂ Separation Membrane 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 CO₂ Separation Membrane 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 CO₂ Separation Membrane for Biogas Upgrading market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CO₂ Separation Membrane 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 CO₂ Separation Membrane for Biogas Upgrading.

This report presents a comprehensive overview, market shares, and growth opportunities of CO₂ Separation Membrane 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 Structure:

Hollow-fiber

Spiral-wound

Segmentation by Materials:

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 CO₂ Separation Membrane for Biogas Upgrading market?

What factors are driving CO₂ Separation Membrane for Biogas Upgrading market growth, globally and by region?

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

How do CO₂ Separation Membrane for Biogas Upgrading market opportunities vary by end market size?

How does CO₂ Separation Membrane for Biogas Upgrading break out by Type, by Application?

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