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Global Membrane Separation Biogas Upgrading System Market Growth 2025-2031

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Abstracts

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The global Membrane Separation Biogas Upgrading System market size is predicted to grow from US$ 156 million in 2025 to US$ 266 million in 2031; it is expected to grow at a CAGR of 9.2% from 2025 to 2031.

Biogas upgrading equipment (biogas upgrader) is a facility that is used to concentrate the methane in biogas to natural gas standards. The system removes carbon dioxide, hydrogen sulphide, water and contaminants from the biogas. Often more suitable for small to medium-sized projects, the membrane separation technology uses permeation to filter out larger methane molecules from the smaller carbon dioxide molecules. Membrane upgraders have a small footprint, a low methane slip, require little maintenance, and achieve high quality and gas production; all of which has helped to become the most popular biogas upgrading technology in the world today.

Biogas upgrading equipment (biogas upgrader) is a facility that is used to concentrate the methane in biogas to natural gas standards. The system removes carbon dioxide, hydrogen sulphide, water and contaminants from the biogas. The solution is the use of biogas upgrading or purification processes whereby contaminants in the raw biogas stream are absorbed or scrubbed, leaving more methane per unit volume of gas. There are four main methods of upgrading: water washing, pressure swing adsorption, selexol adsorbtion, and amine gas treating.

LP Information, Inc. (LPI) ' newest research report, the “Membrane Separation Biogas Upgrading System Industry Forecast” looks at past sales and reviews total world Membrane Separation Biogas Upgrading System sales in 2024, providing a

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comprehensive analysis by region and market sector of projected Membrane Separation Biogas Upgrading System sales for 2025 through 2031. With Membrane Separation Biogas Upgrading System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Membrane Separation Biogas Upgrading System industry.

This Insight Report provides a comprehensive analysis of the global Membrane Separation Biogas Upgrading System 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 Biogas Upgrading System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Membrane Separation Biogas Upgrading System market.

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

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

Segmentation by Type:

30 – 60 Nm3/hr

60 – 600 Nm3/hr

600 – 1,400 Nm3/hr

over 1,400 Nm3/hr

Segmentation by Application:

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- Municipal
- Industrial
- Agricultural

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

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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.

Greenlane Renewables

Xebec

DMT Environmental Technology

EnviTec Biogas

Bright Bio-methane

Pentair Haffmans

Sanyi Green Energy

Hitachi Zosen Inova

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Air Liquide

Key Questions Addressed in this Report

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

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

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

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

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

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