

Global Biogas Upgrading Solution Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biogas Upgrading Solution market size is expected to reach \$ 3889 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

Biogas Upgrading Solution refers to a systematic solution that employs technologies—such as membrane separation, PSA/VPSA, pressurized water scrubbing, amine scrubbing, and cryogenic separation—to remove or separate impurities (including CO₂, H₂S, moisture, siloxanes, VOCs, and N₂/O₂) from raw biogas generated via anaerobic digestion or landfill gas. This process elevates the methane content to a level suitable for injection into gas grids, use as vehicular Bio-CNG/CBG or Bio-LNG/LBG, application as industrial fuel, or commercial sale as biomethane. Raw biogas typically consists primarily of methane and carbon dioxide; according to the EIA, the typical methane content ranges from approximately 45% to 65%. Upgraded biomethane (or RNG) is generally required to reach a methane purity of approximately 96% to 99% CH₄, depending on specific gas grid or fuel quality standards.

The utilization of biogas is currently shifting from traditional power generation and heating toward higher-value applications—specifically, Renewable Natural Gas (RNG)/biomethane, Bio-CNG, Bio-LNG, and grid injection. The primary driver for this transition is that biomethane can directly substitute for conventional natural gas, thereby integrating seamlessly into the transportation, industrial, and municipal gas sectors. While biogas upgrading systems historically tended to vent CO₂ emissions, an increasing number of projects now incorporate modules for CO₂ liquefaction, food-grade CO₂ recovery, or the capture of CO₂ as a feedstock for e-fuels. This expansion transforms projects from a 'single-revenue' model (based solely on RNG) into a 'dual-revenue' model encompassing both RNG and Bio-CO₂. Leading industry players—such

as W?rtsil?, Pentair, and Malmberg—have all introduced or placed a strong emphasis on solutions for CO? recovery and liquefaction. Given the significant variability in raw materials—including landfill gas, wastewater treatment plant effluent, agricultural waste, and food waste—the market is demanding enhanced capabilities for the integrated management of the entire process: 'pretreatment + upgrading + post-treatment.' This is particularly critical for landfill gas, which frequently contains impurities such as N?, O?, siloxanes, and VOCs.

This report studies the global Biogas Upgrading Solution demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biogas Upgrading Solution, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Biogas Upgrading Solution that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biogas Upgrading Solution total market, 2021-2032, (USD Million)

Global Biogas Upgrading Solution total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Biogas Upgrading Solution total market, key domestic companies, and share, (USD Million)

Global Biogas Upgrading Solution revenue by player, revenue and market share 2021-2026, (USD Million)

Global Biogas Upgrading Solution total market by Type, CAGR, 2021-2032, (USD Million)

Global Biogas Upgrading Solution total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Biogas Upgrading Solution market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Greenlane Renewables, Air Liquide Advanced Separations, W?rtsil? Gas Solutions, DMT Clear Gas Solutions, Malmberg Energy, Bright Renewables, EnviTec Biogas, Pentair Biogas Solutions, SYSADVANCE, Carbotech Gas Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Biogas Upgrading Solution market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Biogas Upgrading Solution Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biogas Upgrading Solution Market, Segmentation by Type:

Membrane Separation

PSA

Water Washing

Chemical Washing

Others

Global Biogas Upgrading Solution Market, Segmentation by Feedstock Source:

Agricultural Waste Biogas Type

Food Waste / Organic Waste Biogas Type

Wastewater Sludge Biogas Type

Landfill Gas Type

Industrial Organic Waste Biogas Type

Others

Global Biogas Upgrading Solution Market, Segmentation by Methane Purity:

Medium Purity Type: 90%–96% CH₄

Pipeline-Grade Type: 96%–98% CH₄

High-Purity Type: 98%–99.5% CH₄

Ultra-High-Purity Type: >99.5% CH₄

Others

Global Biogas Upgrading Solution Market, Segmentation by Application:

Waste Processors

Water Treatment Plants

Landfills

Food Processing Companies

Agricultural

Companies Profiled:

Greenlane Renewables

Air Liquide Advanced Separations

W?rtsil? Gas Solutions

DMT Clear Gas Solutions

Malmberg Energy

Bright Renewables

EnviTec Biogas

Pentair Biogas Solutions

SYSADVANCE

Carbotech Gas Systems

AB Energy

Unison Solutions

Bright Renewables

UBE Corporation

Yingherui

Sujing Engineering

Houpu Clean Energy

Asahi Kasei

UBE Corporation

Tokyo Gas Engineering Solutions

Key Questions Answered

1. How big is the global Biogas Upgrading Solution market?
2. What is the demand of the global Biogas Upgrading Solution market?
3. What is the year over year growth of the global Biogas Upgrading Solution market?
4. What is the total value of the global Biogas Upgrading Solution market?
5. Who are the Major Players in the global Biogas Upgrading Solution market?
6. What are the growth factors driving the market demand?

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