

Global Biomethane Market Size study & Forecast, by Feedstock (Organic Household, Animal Manure, Energy Crops, Agricultural Waste, Sewage Sludge, Industrial Food Processing Waste) by Production Method (Anaerobic Digestion, Gasification, Fermentation), by Application (Automotive, Power Generation, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Biomethane Market is valued approximately at USD 8.00 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 28.70% over the forecast period 2023-2030. Biomethane, also known as renewable natural gas (RNG) or green gas, is produced from organic materials through a process called anaerobic digestion or through the gasification of biomass. Anaerobic digestion involves the decomposition of organic matter by microorganisms in the absence of oxygen, leading to the production of biogas, which primarily consists of methane (CH₄) and carbon dioxide (CO₂). The produced biogas can then be upgraded to biomethane by removing impurities such as CO₂ and other trace elements. The key factors driving the market growth are rising demand for renewable energy sources, cohesive government rules and regulation, and expansion of biomethane infrastructure, including upgrading existing biogas facilities and building new injection and distribution systems which facilitates the integration of biomethane into existing natural gas grids.

Additionally, cohesive investment in renewable energy sources is anticipated to support the market growth during projected period. For instance, in oct 2023, during the Renewable Energy India Expo 2023, the Indian Biogas Association (IBA) secured substantial investments totaling Rs 2,755 crore. Comprising operators, manufacturers, and bioenergy plant planners, IBA garnered commitments through joint ventures,

memoranda of understanding (MoUs), and letter of intent (LoI) agreements. This significant funding underscores the growing momentum and confidence in the bioenergy sector, emphasizing its pivotal role in India's renewable energy landscape. The investments are poised to drive advancements in technology, infrastructure, and sustainability, contributing to the nation's efforts to expand and optimize its renewable energy portfolio. Thus, the rising investment in renewable energy source is anticipated to support the market growth. Moreover, the growing research and development and scalability and flexibility of the production process is anticipated to create the lucrative opportunity for the market during projected period, However, the high investment costs stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Biomethane Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Europe dominated the market in 2022 owing to the cohesive government initiatives, increased focus on renewable gas, growing environmental awareness, and advancement of technologies. Whereas, the Asia Pacific region is expected to grow with the highest CAGR during the forecast period, owing to factors such as the steadily rising demand for Renewable Natural Gas (RNG) for electricity generation, growing investments in biogas upgrading technologies and rising support from regional governments.

Major market player included in this report are:

PlanET Biogas Global GmbH
VERBIO Vereinigte BioEnergie AG
EnviTec Biogas AG
Orbital Gas Systems
Ecofinity
Future Biogas Limited
Gazasia Limited
AB HOLDING SPA
CNG Services Ltd.
ETW Energietechnik GmbH

Recent Developments in the Market:

In September 2020, Weltec Biopower started building a new biogas plant in South Korea. This plant will transform biogas into heat in an integrated gas boiler. The plant is expected to be commissioned in spring 2021 with a 7 MW capacity and can digest up to 93,000 tons of food waste a year.

Global Biomethane Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Feedstock, Production Method, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Feedstock:

Organic Household

Animal Manure

Energy Crops

Agricultural Waste

Sewage Sludge

Industrial Food Processing Waste

By Production Method:

Anaerobic Digestion

Gasification

Fermentation

By Application:

Automotive

Power Generation

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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