

Biogas Market By Source (Landfill Gas, Livestock Waste, Municipal Waste, Others), By Application (Power Generation, Co-Generation, Buildings, Others): Global Opportunity Analysis and Industry Forecast, 2023-2032

Market Report | 2024-03-01 | 250 pages | Allied Market Research

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Report description:

The biogas market was valued at \$59.0 billion in 2022, and is estimated to reach \$88.6 billion by 2032, growing at a CAGR of 4.2% from 2023 to 2032.

Biogas is a renewable energy source produced through the breakdown of organic matter in the absence of oxygen, a process known as anaerobic digestion. It primarily consists of methane and carbon dioxide, with trace amounts of other gases. Common feedstocks for biogas production include agricultural residues, animal manure, sewage, and food waste. Biogas can be used for electricity generation, heating, and as a vehicle fuel, making it a versatile and environmentally friendly energy source. Its production helps mitigate greenhouse gas emissions by capturing methane, a potent contributor to climate change, and converting organic waste into a valuable energy resource.

Waste management regulations play a crucial role in driving the growth of the biogas market by incentivizing the adoption of sustainable waste management practices. As governments around the globe implement stricter regulations to mitigate environmental pollution and reduce greenhouse gas emissions, there is increasing pressure on industries and municipalities to manage their organic waste more effectively. Biogas technology offers an environmentally friendly solution by converting organic waste materials, such as agricultural residues, food scraps, and sewage, into valuable renewable energy.

With waste management regulations mandating the diversion of organic waste from landfills and the reduction of methane emissions, biogas production becomes an attractive option for compliance. Biogas facilities can effectively treat organic waste, preventing it from decomposing in landfills and releasing methane, a potent greenhouse gas into the atmosphere. Moreover, biogas generation provides a sustainable alternative to fossil fuels, further reducing carbon emissions and contributing to climate change mitigation efforts. Biogas facilities can generate revenue through the sale of renewable energy and by-products, such as organic fertilizers. Therefore, waste management regulations serve as a driving force behind the expansion of the biogas market, fostering sustainable waste management practices and renewable energy production simultaneously.

Land use and feedstock availability constraints pose significant challenges to the growth of the biogas market. The availability of suitable feedstock, such as organic waste and agricultural residues, is essential for biogas production. However, competition for land resources between agriculture, urban development, and conservation efforts can limit the availability of feedstock for biogas projects. In regions with limited agricultural land or strict land-use regulations, sourcing adequate feedstock may be challenging, leading to constraints on biogas production capacity.

Moreover, the quality and quantity of feedstock can vary seasonally, depending on factors such as crop harvesting cycles and waste generation patterns. Inconsistent feedstock availability can impact the reliability and efficiency of biogas plants, affecting their economic viability and overall market growth. In addition, the transportation and logistics involved in collecting and delivering feedstock to biogas facilities can incur additional costs and logistical challenges, particularly in rural areas with dispersed sources of organic waste. Furthermore, competition for feedstock resources from other biomass-based industries, such as biofuels and bioenergy, further exacerbates feedstock availability constraints for biogas production. As demand for biomass increases across multiple sectors, securing a reliable and sustainable supply of feedstock becomes increasingly challenging. The increasing demand for biogas-based transportation fuels presents lucrative opportunities for the biogas market. As the transportation sector seeks to reduce its carbon footprint and transition towards sustainable alternatives to conventional fossil fuels, biogas emerges as a promising solution. Biogas can be upgraded to biomethane, a high-purity methane gas, which can be used as a renewable transportation fuel in the form of compressed natural gas (CNG) or liquefied natural gas (LNG).

Biomethane-powered vehicles offer significant environmental benefits, including lower greenhouse gas emissions and reduced air pollutants compared to gasoline or diesel-powered vehicles.

Moreover, the use of biogas-derived biomethane as a transportation fuel contributes to waste management by utilizing organic waste streams such as agricultural residues, food waste, and municipal solid waste as feedstock. This not only helps divert organic waste from landfills but also provides an additional revenue stream for waste producers through biogas production. In addition, biomethane can help enhance energy security by reducing dependency on imported fossil fuels, thus offering a sustainable and domestically produced alternative fuel source for transportation. Furthermore, incentives and policies promoting the adoption of renewable transportation fuels, along with increasing consumer awareness and acceptance of biomethane-powered vehicles, further drive the demand for biogas-based transportation fuels. As a result, the biogas market stands to benefit from the growing demand for sustainable transportation solutions, offering significant opportunities for investment and market growth.

The biogas market is segmented based on source, end-use industry, and region. As per source, the market is divided into municipal waste, animal waste, agricultural waste, and others. By end-use industry, it is categorized into electricity generation, cogeneration, and others. Region-wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

The major players operating in the global biogas market are Wartsila, EnviTec Biogas AG, Air Liquide USA, Hindustan Petroleum Corporation Limited, India, PlanET Biogas Group, BoxLNG Pvt. Ltd., Bharat Biogas Energy Ltd., Primove Engineering Pvt. Ltd., GAIL Gas Limited, and GPS Renewables Pvt. Ltd. Other players include Green Elephant, IOT, Praj Industries, and SLPP RE.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the biogas market analysis from 2022 to 2032 to identify the prevailing biogas market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the biogas market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global biogas market trends, key players, market segments, application areas, and market growth strategies.

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- Additional company profiles with specific to client's interest
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- SWOT Analysis

Key Market Segments

By Source

- Landfill Gas
- Livestock Waste
- Municipal Waste
- Others

By Application

- Buildings
- Others
- Power Generation
- Co-Generation

By Region

- North America
- ? U.S.
- ? Canada
- ? Mexico
- Europe
- ? Germany
- ? France
- ? Italy
- ? UK
- ? Spain
- ? Rest of Europe

- Asia-Pacific

- ? China
- ? Japan
- ? India
- ? South Korea
- ? Australia
- ? Rest of Asia-Pacific
- LAMEA
- ? Brazil

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- ? Saudi Arabia
- ? South Africa
- ? Rest of LAMEA
- Key Market Players
- ? Wartsila
- ? EnviTec Biogas AG
- ? Air Liquide
- ? Hindustan Petroleum Corporation Limited
- ? PlanET Biogas Group GmbH
- ? BoxLNG Pvt. Ltd.
- ? Bharat Biogas Energy Ltd.
- ? Primove Engineering Pvt. Ltd.
- ? gail gas limited
- ? GPS Renewables Pvt. Ltd

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