

# Global Biogas Market Size to Reach \$83.97 Billion by 2030: Latest Report by Vantage Market Research

*Biogas Market 2024 Industry Size, Share, Analysis And Research Report by Vantage Market Research*

WASHINGTON, D.C, DISTRICT OF COLUMBIA, UNITED STATES, January 12, 2024 /EINPresswire.com/ -- Biogas is a renewable and environmentally friendly fuel that is produced by converting various forms of organic waste into gas. Biogas mainly consists of methane and carbon dioxide, and can be used for various purposes such as electricity generation, heating, combined heat and power, and transportation. Biogas is a promising alternative to fossil fuels, as it can reduce greenhouse gas emissions, enhance energy security, and create economic and social benefits.



Biogas Market 2032

The [Global Biogas Market](#) size was valued at USD 61.36 Billion in 2022 and is projected to grow to USD 83.97 Billion by 2030, exhibiting a CAGR of 4.00% during the forecast period 2023 and 2030, according to a report by Vantage Market Research. The biogas market is driven by several factors, such as the increasing focus on [renewable energy](#), waste-to-energy initiatives, government support, and environmental sustainability. Moreover, technological advancements and growing awareness are also contributing to the market growth.

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The growing demand for clean and renewable energy sources to meet the rising energy needs and mitigate climate change is a major factor driving the biogas market. Biogas can provide a reliable and cost-effective source of energy that can reduce dependence on fossil fuels and

diversify the energy mix.

The increasing generation of organic waste from various sources such as agriculture, industry, households, and municipalities poses a significant challenge for waste management and disposal. Biogas can offer a sustainable solution for waste management, as it can convert waste into valuable resources such as energy and fertilizer. Biogas can also reduce the environmental and health impacts of waste disposal, such as odors, pollution, and diseases.

The biogas market is also supported by various policies and incentives from governments and international organizations that aim to promote the development and deployment of biogas. These include feed-in tariffs, subsidies, tax credits, grants, loans, and carbon credits. These policies and incentives can enhance the economic viability and competitiveness of biogas projects and encourage investments and innovations in the sector.

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- Scandinavian Biogas Fuels International AB
- Schmack Biogas Service
- Gasum Oy
- Total Energies
- Agrinz Technologies GmbH
- Homebiogas Inc.
- Xebec Adsorption Inc.
- DMT International
- Air Liquide
- Planet Biogas
- BEKON GmbH
- Wartsila Corporation
- EnviTech Biogas AG
- Greenlane Renewables
- Asia Biogas

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The biogas market is expanding its scope and application to the transportation sector, as biogas can be used as a fuel for vehicles such as cars, buses, trucks, and trains. Biogas can offer several advantages for transportation, such as lower emissions, lower costs, and higher energy efficiency. Biogas can also reduce the reliance on imported oil and enhance energy security. The biogas market is expected to benefit from the growing demand for alternative fuels and the

development of biogas refueling infrastructure and vehicles.

The biogas market is also witnessing the advancement of biogas technologies and innovations that can improve the quality and quantity of biogas production and utilization. These include the development of new feedstocks, such as energy crops and algae, that can increase the biogas yield and reduce the land use. The development of new biogas systems, such as micro-scale and modular units, that can reduce the capital and operational costs and increase the flexibility and scalability. The development of new biogas applications, such as power-to-gas and biogas-to-liquids, that can enhance the value and versatility of biogas.

The biogas market is also exploring the integration of biogas with other renewable energy sources, such as solar, wind, and hydro, to create hybrid and smart energy systems. The integration of biogas with other renewables can optimize the energy supply and demand, increase the reliability and stability of the grid, and reduce the intermittency and variability of renewable energy sources. The integration of biogas with other renewables can also create synergies and complementarities that can enhance the environmental and economic benefits of biogas.

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□ The organic residue and wastes segment accounted for the largest share of the biogas market in 2022, as it is the most widely available and low-cost feedstock for biogas production.

□ The electricity generation segment dominated the biogas market in 2022, as it is the most common and efficient application of biogas that can provide power for various end-users.

□ Europe was the largest regional market for biogas in 2022, owing to the high adoption of biogas, supportive policies and incentives, and advanced technologies and infrastructure in the region.

□ Some of the key players operating in the biogas market are Scandinavian Biogas Fuels International AB, Schmack Biogas Service, Gasum Oy, Total Energies, Agrinz Technologies GmbH, Homebiogas Inc., Xebec Adsorption Inc., DMT International, Air Liquide, Planet Biogas, BEKON GmbH, Wartsila Corporation, EnviTech Biogas AG, Greenlane Renewables, Asia Biogas and others.

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The biogas market faces some challenges in terms of high capital and operational costs that can hinder its growth. The biogas production and utilization require significant investments in infrastructure, equipment, and maintenance. The biogas projects also involve complex and lengthy processes such as feasibility studies, permitting, construction, and commissioning. The biogas market also faces competition from other renewable energy sources that may have lower costs and higher efficiencies.

The biogas market also suffers from a lack of awareness and technical expertise among the potential users and stakeholders. The biogas sector is still relatively new and emerging in many regions, and there is a need for more education and awareness campaigns to increase the acceptance and adoption of biogas. Moreover, the biogas sector also requires skilled and trained personnel to operate and maintain the biogas systems and ensure their safety and performance.

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The biogas market has a huge potential to expand its presence and penetration in the emerging markets, such as Asia-Pacific, Latin America, and Africa, that have a high demand for energy and a large amount of organic waste. The biogas market can leverage the opportunities in these regions by providing a sustainable and affordable source of energy that can meet the energy needs and improve the living standards of the people. The biogas market can also benefit from the opportunities in these regions by creating new markets and customers, enhancing the competitiveness and innovation, and fostering the regional and global cooperation and trade of biogas.

The biogas market can also explore the opportunities of developing biogas clusters and networks that can create synergies and economies of scale for the biogas sector. Biogas clusters and networks are groups of biogas producers, users, and stakeholders that collaborate and coordinate to optimize the biogas value chain and enhance the biogas quality and quantity. Biogas clusters and networks can also facilitate the exchange of information, knowledge, and best practices, and promote the innovation and standardization of biogas technologies and policies.

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- Q. What is the current size and projected growth of the global biogas market?
- Q. Which factors are driving market growth?
- Q. What are the major applications of biogas across different sectors?
- Q. What are the key trends shaping the biogas landscape?
- Q. What are the regional variations in market dynamics?
- Q. What are the challenges and opportunities associated with biogas market development?
- Q. What are the leading players in the biogas market?
- Q. What are the investment opportunities in the biogas sector?

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Europe's biogas market takes center stage, accounting for a significant share of the global market. Driven by ambitious renewable energy targets, supportive government policies, and well-established biogas infrastructure, European nations like Germany, the United Kingdom, and Italy are at the forefront of biogas adoption. The region is witnessing widespread application of biogas in electricity generation, heat production, and transportation, fueled by investments in advanced technologies and innovative business models. Furthermore, the crescente focus on circular economy principles is further propelling the European biogas market, as countries recognize the potential of biogas to address waste management challenges and contribute to a more sustainable future.

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