

# USD 19.7 Billion Organic Biogas Market Analysis by Competitors and Regional Growth by 2031 | Allied Market Research

*Advancement in Technology Foreseen to Drive the Global Organic Biogas Market from 2021 to 2031*

WILMINGTON, DELAWARE, UNITED STATES, April 10, 2024

/EINPresswire.com/ -- Rapidly growing demand for clean mobility in the transportation sector. The decline in petroleum resources across the globe and the increase in the awareness related to the importance of economic sustainability of the sector have led to the utilization of organic waste to produce biogas. Furthermore, the rapid increase in the population across the globe has led to an increase in the demand for energy from renewable resources. The presence of utilization of biogas in the residential sector for cooking and heating purposes will provide ample opportunities for the development of the global [organic biogas market](#) in the forecast period. The organic biogas market size was valued at \$10.7 billion in 2021, and the organic biogas industry is estimated to reach \$19.7 billion by 2031, growing at a CAGR of 6.4% from 2022 to 2031.

Initiatives toward research & development in reducing toxic emissions and government initiatives to use bio-based transportation fuel are the key factors boosting the Organic biogas market growth.”

*Allied Market Research*



□□□□□□ □□ □□□□□□ □□□:

<https://www.alliedmarketresearch.com/request-sample/32062>

Biogas is an environmentally friendly and renewable energy source. It is produced when organic matter, such as food or animal waste, is broken down by microorganisms in the absence of oxygen, in a process called anaerobic

digestion. It occurs naturally anywhere from within the digestive system to the depth of effluent ponds and can be reproduced artificially in engineered containers called digesters. Animal

manure, food waste, wastewater, and sewage are examples of organic matter that can generate biogas through anaerobic digestion. Owing to the high methane content, biogas is flammable, and therefore produces a deep blue flame and can be used as an energy source. Biogas, also known as renewable natural gas, is “renewable” in the sense that humans and animals keep producing waste. It is commonly used in rural areas as cooking gas. It can be used to produce electricity. It can be used in instruments used for water heating, room heating, and it can replace compressed natural gas for use in vehicles.

The growth of the organic biogas market is expected to be driven by rising in environmental awareness and an increase in supply concerns related to the utilization of fossil fuels. Furthermore, rapid infrastructure development and a rise in energy demand from commercial & industrial sectors have boosted the construction of biogas production plants. In addition, the implementation of stringent pollution regulations, an increase in understanding of environmental conservation, rise in concern related to economic sustainability in every sector have led to the utilization of organic waste to produce biogas, which is further utilized in the power generation and transportation sector for various purposes.

The organic biogas market has certain restraints. These include the release of harmful compounds and air contaminants, such as CO into the environment during organic production which is expected to lead to a decline in the market share in coming years. The risk associated with soil and water contamination in the process of anaerobic digestion in the landfill industry is high. High capital investment in setting up biogas production plants and technology implementation are hampering the organic biogas market growth.

China has the highest number of biogas plants among the IEA bioenergy with more than 100,000 biogas plants. It is one of the first countries to develop and utilize biogas. The main feedstocks used in biogas production in China are kitchen (food) waste, livestock waste (manures and slurries), and energy crops. There is a big move underway to promote the use of yellow straw as a feedstock. In contrast to the European industry, roughly two-thirds of the economic value of biogas plants in China comes from organic fertilizer, with one-third from energy production. While there are thousands of small biogas plants scattered around the country, the central government is now promoting larger-scale deployment, particularly of agricultural plants, to promote renewable energy growth and improve water and air quality.

Germany is the largest biogas fuel producer and more than 10,000 biogas plants operated in 2020. Half of the European continent's methanisers are in Germany. Currently, 80% of the organic matter used in the biogas industry in Germany comes from plants grown exclusively for this purpose, according to the German Environment Agency.

The organic biogas market forecast is segmented based on source, application, and region. By source, the market is fragmented into poultry & livestock, agriculture waste, landfill gas, and others. The landfill gas segment is further classified into electricity, direct use, combined heat and power, and alternate fuels. The direct use segment is further categorized into boilers, direct

thermal & leachate evaporation, and others. In addition, by application, the market is segregated into power generation, cooking, combined heat & power, and clean mobility. Region-wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA. Presently, Europe accounts for the largest organic biogas market share, followed by North America, Asia-Pacific, and LAMEA.

For more information on this report, please contact our sales team at: <https://www.alliedmarketresearch.com/request-for-customization/32062>

Report ID: 32062

The Organic Biogas industry's key market players adopt various strategies such as product launch, product development, collaboration, partnership, and agreements to influence the market. It includes details about the key players in the market's strengths, product portfolio, market size and share analysis, operational results, and market positioning.

Key players in the Organic Biogas market include:

Xebec Adsorption Inc.  
DGE GmbH  
Carbotech, Guild Associates Inc.  
Dreyer & Bosse (Wolf GmbH)  
DMT environmental technology  
EnviTec  
L'Air Liquide S.A.  
Atlas Copco  
Biofrigas Sweden AB

The landfill gas segment dominates the global organic biogas market. Landfills for municipal solid waste are a source of biogas. Biogas is produced naturally by anaerobic bacteria in municipal solid waste landfills and is called landfill gas. Landfill gas with a high methane content can be dangerous to people and the environment as methane is flammable. Landfill gas contains many different gases. Methane and carbon dioxide make up 90 to 98% of landfill gas.

The power generation segment dominates the global organic biogas market. Biogas is turned into electricity using a combustion engine, fuel cell, or gas turbine, with the resulting electricity being used on-site or sold onto the electric grid. A cubic meter of biogas contains the equivalent of 6kWh of heat energy. The same volume of biogas converted to electrical power yields 2kWh, the rest of the energy is dispersed as heat that can be reclaimed and applied to other uses.

Europe segment dominated the global organic biogas market. The European organic biogas market is anticipated to witness significant growth during the forecast period. This is attributed to an increase in the installation of biogas plants due to the ongoing transition to a sustainable

and circular economy as well as an increase in focus on cost-effective waste management strategies. Furthermore, the introduction of national regulations and EU Directives toward renewable energy utilization is anticipated to act as a key driving force in the European market.

For more information, please contact us at: <https://www.alliedmarketresearch.com/purchase-enquiry/32062>

Our research reports are available in the following formats:

- As per organic biogas market analysis, by region, the Asia-Pacific organic biogas market is projected to grow at the highest CAGR of nearly 7.1% during the organic biogas market forecast period.
- Based on source, the landfill gas segment garnered the highest share in 2021.
- By application, the power generation segment acquired the largest organic biogas market share in 2021.

For more information, please contact us at: <https://www.alliedmarketresearch.com/purchase-enquiry/32062>

1. <https://www.prnewswire.com/news-releases/biogas-upgrading-technology-market-to-reach-5-4-billion-globally-by-2032-at-14-4-cagr-allied-market-research-301950754.html>

2. <https://www.prnewswire.com/news-releases/gasification-market-to-reach-836-6-billion-globally-by-2032-at-5-7-cagr-allied-market-research-301868101.html>

3. <https://www.globenewswire.com/news-release/2022/09/05/2509899/0/en/Industrial-Gases-Market-to-Reach-162-8-Billion-by-2031-Allied-Market-Research.html>

For more information, please contact us at: <https://www.alliedmarketresearch.com/purchase-enquiry/32062>

Allied Market Research is a top provider of market intelligence that offers reports from leading technology publishers. Our in-depth market assessments in our research reports take into account significant technological advancements in the sector. In addition to other areas of expertise, AMR focuses on the analysis of high-tech systems and advanced production systems. We have a team of experts who compile thorough research reports and actively advise leading businesses to enhance their current procedures. Our experts have a wealth of knowledge on the topics they cover. Also, they use a variety of tools and techniques when gathering and analyzing data, including patented data sources.

David Correa  
Allied Market Research  
+1 5038946022  
[email us here](mailto:info@alliedmarketresearch.com)

Visit us on social media:

[Facebook](#)

[Twitter](#)

[LinkedIn](#)

---

This press release can be viewed online at: <https://www.einpresswire.com/article/702491350>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2024 Newsmatics Inc. All Right Reserved.