

# **Biogas Plant Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Operation Mode (Continuous Flow Filling, Semi-Batch Filling), By Size (Large Size Biogas Plant, Small Size Biogas Plant), By Feedstock Type (Agricultural Waste, Animal Waste, Sewage Sludge, Industrial Waste, Others), By Application (Electricity Generation, Heat Generation, Biofuel Generation), By Industry Verticals (Energy and Power, Oil and Gas, Automotive, Others), By Region, By Competition, 2018-20**

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## **Abstracts**

Global Biogas Plant Market has valued at USD 4.10 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 5.20% through 2028.

The biogas plant market refers to the global industry dedicated to the design, construction, operation, and maintenance of facilities that produce biogas through anaerobic digestion processes. Biogas is a renewable energy source generated by the microbial breakdown of organic materials, such as agricultural residues, livestock manure, food waste, and sewage sludge, in the absence of oxygen. The resulting biogas consists primarily of methane (CH<sub>4</sub>) and carbon dioxide (CO<sub>2</sub>) and can be utilized as a versatile and sustainable energy resource.

Biogas plants, also known as anaerobic digestion facilities, serve as the epicenter of this market. These plants house specialized equipment and infrastructure to facilitate the controlled decomposition of organic feedstock into biogas. Biogas can be harnessed

for various applications, including electricity generation, heat production, and conversion into biomethane for injection into natural gas grids or use as a transportation fuel.

The biogas plant market is driven by growing concerns about environmental sustainability, renewable energy adoption, waste management, and reducing greenhouse gas emissions. Government policies, technological advancements, and investment initiatives further propel the expansion of this market, contributing to a cleaner and more sustainable energy landscape while addressing waste management challenges.

## Key Market Drivers

### Growing Awareness of Environmental Sustainability

In recent years, the global biogas plant market has witnessed a significant surge due to the growing awareness of environmental sustainability. As concerns about climate change, greenhouse gas emissions, and the depletion of natural resources continue to escalate, individuals, businesses, and governments worldwide are actively seeking cleaner and more sustainable energy solutions. Biogas, a renewable energy source produced from organic waste materials, has emerged as a promising option to address these concerns.

Biogas production not only diverts organic waste from landfills but also reduces methane emissions, a potent greenhouse gas released during the decomposition of organic matter in landfills. This dual benefit of waste management and greenhouse gas reduction has led to increased interest and investments in biogas plants as a viable and eco-friendly energy solution.

Moreover, the global commitment to reducing carbon footprints and achieving climate goals, such as the Paris Agreement, has propelled the adoption of biogas as a key component of the clean energy transition. Governments are providing incentives, subsidies, and favorable policies to encourage the development of biogas infrastructure. This growing awareness of environmental sustainability is a primary driver pushing the biogas plant market forward.

### Increasing Focus on Circular Economy Principles

The concept of a circular economy, which emphasizes the efficient use of resources

and minimizing waste, has gained traction worldwide. Biogas plays a pivotal role in this paradigm shift by transforming organic waste streams into valuable energy and biofertilizers. As businesses and governments recognize the economic and environmental benefits of closing the loop on waste, they are investing in biogas plants to harness the potential of organic materials that would otherwise be discarded.

Biogas plant installations offer a practical means of integrating circular economy principles into various sectors, including agriculture, food production, and wastewater treatment. By converting organic waste into biogas, these plants reduce the need for traditional fossil fuels and synthetic fertilizers, contributing to resource conservation and sustainability. The adoption of circular economy strategies is a strong driver propelling the growth of the global biogas plant market.

### Favorable Regulatory Environment and Incentives

Governments and regulatory bodies around the world have recognized the importance of biogas in achieving sustainability goals and reducing greenhouse gas emissions. Consequently, they have introduced a range of supportive policies and incentives to encourage the development of biogas plants.

These incentives may include feed-in tariffs, tax credits, grants, and subsidies for biogas projects. Additionally, regulatory frameworks have been designed to facilitate permitting and streamline the approval process for biogas plant installations. These favorable regulations and incentives significantly reduce the financial barriers associated with biogas project development, making it an attractive option for investors and project developers.

Furthermore, many countries have set ambitious renewable energy targets that incorporate biogas as a key component. These targets drive the demand for biogas plants, further fostering market growth. The favorable regulatory environment and incentives are pivotal drivers shaping the global biogas plant market landscape.

### Increasing Energy Demand and Energy Security Concerns

The global demand for energy continues to rise, driven by population growth, urbanization, and industrialization. This increasing energy demand has led to concerns about energy security and the reliance on finite fossil fuel resources. Biogas, as a renewable and decentralized energy source, addresses these concerns by offering a reliable and sustainable energy solution.

Biogas plants can produce electricity, heat, and biomethane, providing versatile energy options for various applications. Moreover, their decentralized nature reduces the vulnerability of energy supply chains to disruptions, enhancing energy security. This dual benefit of meeting energy demand while ensuring security has made biogas plants an attractive investment for both public and private stakeholders.

In regions where energy access is limited, biogas plants offer a cost-effective and environmentally friendly means of producing clean energy locally. The increasing energy demand and associated security concerns act as significant drivers propelling the global biogas plant market forward.

### Technological Advancements in Biogas Production

Technological advancements have played a crucial role in driving the global biogas plant market. Over the years, there have been significant improvements in biogas production processes, including the development of more efficient anaerobic digestion technologies, enhanced pre-treatment methods, and improved biogas upgrading techniques.

These advancements have led to increased biogas production yields, higher energy efficiency, and improved system reliability. As a result, the economic viability and competitiveness of biogas plants have improved, making them more appealing to investors and project developers.

Additionally, ongoing research and development efforts are exploring new feedstock options, such as algae and agricultural residues, expanding the range of organic materials that can be used in biogas production. These innovations not only drive market growth but also contribute to the sustainability and versatility of biogas as an energy source.

### Growing Investments in Infrastructure and Technology

The biogas plant market is benefiting from significant investments in infrastructure and technology. Public and private sector investments are pouring into the development of biogas production facilities, distribution networks, and related technologies. This investment surge is driven by a combination of factors, including government initiatives, corporate sustainability goals, and the desire to capitalize on the economic potential of biogas.

Investments are not limited to biogas production alone but also extend to the expansion of biogas utilization. This includes the development of biogas upgrading facilities to produce biomethane for injection into natural gas grids and the establishment of refueling stations for biomethane-powered vehicles. These investments enhance the market's growth prospects by creating new revenue streams and expanding the applications of biogas.

In conclusion, the global biogas plant market is experiencing robust growth driven by factors such as increasing awareness of environmental sustainability, the adoption of circular economy principles, favorable regulatory environments, rising energy demand, technological advancements, and substantial investments in infrastructure and technology. These drivers collectively contribute to the growing prominence of biogas as a vital component of the global energy transition and sustainable waste management solutions.

## Government Policies are Likely to Propel the Market

### Feed-in Tariffs and Renewable Energy Obligations

Feed-in tariffs (FiTs) and renewable energy obligations (REOs) are crucial government policies that have played a significant role in promoting the growth of the global biogas plant market. These policies are designed to incentivize the production of renewable energy, including biogas, by providing financial support and setting targets for renewable energy adoption.

Feed-in tariffs involve the government guaranteeing a fixed price for the electricity generated from biogas plants, typically above market rates. This ensures that biogas producers receive a stable income for their renewable energy production, making investments in biogas facilities more attractive to investors. FiTs also help reduce the payback period for biogas plant installations, making them economically viable.

Renewable energy obligations, on the other hand, mandate that a certain percentage of the total energy supply must come from renewable sources. Biogas, being a renewable energy source, contributes to fulfilling these obligations. Governments set these targets to reduce greenhouse gas emissions, enhance energy security, and transition towards cleaner energy sources. In some cases, non-compliance with REOs can result in penalties, further motivating the adoption of biogas technologies.

These policies not only encourage the development of new biogas plants but also support the ongoing operation and maintenance of existing facilities. As governments worldwide strive to meet their renewable energy targets and combat climate change, feed-in tariffs and renewable energy obligations continue to be key drivers of growth in the global biogas plant market.

### Subsidies and Grants for Biogas Projects

Government subsidies and grants are instrumental in facilitating the establishment of biogas plants by providing financial support to project developers and operators. These policies are aimed at reducing the financial barriers associated with biogas project development and improving the economic viability of these ventures.

Subsidies often cover a portion of the capital costs required to build biogas plants, such as the purchase of equipment, construction, and infrastructure development. Grants may be provided for research and development, feasibility studies, or pilot projects, encouraging innovation and technology improvement within the biogas sector.

Additionally, governments may offer tax incentives, such as tax credits or deductions, to attract investments in biogas projects. These financial incentives make biogas a more appealing investment opportunity for both private companies and individuals.

The impact of subsidies and grants varies from country to country, with some governments offering more generous incentives to promote biogas adoption. These policies have not only driven the expansion of the biogas plant market but also encouraged research and innovation, leading to more efficient and cost-effective biogas production technologies.

### Renewable Portfolio Standards (RPS)

Renewable Portfolio Standards (RPS), also known as Renewable Energy Standards (RES) or Renewable Energy Portfolio Standards (REPS), are government policies that mandate a specific percentage of a state or country's energy mix to be derived from renewable sources, including biogas. RPS policies create a legal requirement for utilities and energy providers to procure a certain amount of renewable energy, which includes electricity generated from biogas.

By establishing these standards, governments create a stable and predictable market for biogas producers. Energy providers are compelled to purchase biogas-generated

electricity, ensuring a consistent revenue stream for biogas plants. RPS policies also stimulate competition among renewable energy producers, fostering innovation and reducing costs over time.

RPS policies are often accompanied by compliance mechanisms, such as Renewable Energy Credits (RECs) or Renewable Energy Certificates (RECs), which can be traded and sold. This additional financial incentive encourages the development of new biogas projects and helps offset the costs of production.

The success of RPS policies in promoting biogas adoption depends on the specific targets set and the enforcement of compliance mechanisms. These policies have proven effective in driving the growth of the biogas plant market in regions where they have been implemented.

### Tax Incentives for Biogas Production

Tax incentives are instrumental in encouraging biogas production by providing financial benefits to project developers, operators, and investors. Governments may offer various tax-related policies to support the biogas plant market, including tax credits, deductions, and exemptions.

Tax credits allow biogas producers to subtract a portion of their eligible expenditures from their total tax liability. These expenditures may include capital investments, equipment purchases, and operating costs associated with biogas production. By reducing the overall tax burden, tax credits enhance the financial viability of biogas projects.

Deductions permit businesses to deduct certain expenses related to biogas production from their taxable income, effectively lowering their tax liability. This policy reduces the net cost of operating biogas plants and provides an additional financial incentive.

Tax exemptions, on the other hand, waive certain taxes on biogas production and distribution, making it a more cost-effective energy source for consumers and utilities. Exemptions may apply to property taxes, sales taxes on equipment, or income taxes on biogas-generated revenue.

These tax incentives vary by jurisdiction, and the level of support provided can significantly impact the economic feasibility of biogas projects. Consequently, tax policies have emerged as powerful tools to drive investment and growth in the global

biogas plant market.

## Environmental Regulations and Emission Reduction Targets

Environmental regulations and emission reduction targets set by governments worldwide have a profound impact on the biogas plant market. Biogas is recognized as a sustainable and environmentally friendly energy source due to its ability to reduce greenhouse gas emissions and mitigate air and water pollution.

Governments often implement stringent environmental regulations to limit emissions from various sectors, including agriculture, wastewater treatment, and waste management. Biogas plants play a crucial role in complying with these regulations by capturing and utilizing methane emissions from organic waste sources, such as agricultural residues and sewage.

Furthermore, governments set emission reduction targets to combat climate change and improve air quality. Biogas production contributes to achieving these targets by displacing fossil fuels and reducing methane emissions, a potent greenhouse gas. By utilizing biogas, countries can reduce their carbon footprint and align with international agreements such as the Paris Agreement.

In some cases, governments provide financial incentives or subsidies to industries and municipalities that implement biogas solutions to meet emission reduction targets and comply with environmental regulations. These policies not only drive the adoption of biogas technology but also promote sustainable waste management practices.

## Research and Development Funding

Government funding for research and development (R&D) initiatives is another critical policy driver of the global biogas plant market. R&D funding supports innovation, technological advancements, and the improvement of biogas production processes and equipment.

Governments allocate resources to research institutions, universities, and private companies to conduct studies and develop innovative solutions that enhance the efficiency, reliability, and cost-effectiveness of biogas plants. This funding helps address technical challenges, improve the quality of biogas, and explore new feedstock options, such as algae or industrial waste.



Research and development policies also encourage collaboration between the public and private sectors, fostering knowledge transfer and technology transfer. These collaborations can result in the development of new, more efficient biogas production technologies and processes.

Additionally, R&D funding supports pilot projects and demonstrations, allowing researchers and industry stakeholders to test and validate new biogas technologies on a larger scale. This helps de-risk investments in biogas projects and accelerates their commercialization.

Overall, government policies that promote research and development activities in the biogas sector not only drive technological innovation but also contribute to the long-term sustainability and competitiveness of the global biogas plant market.

## Key Market Challenges

### High Initial Capital Costs

One of the primary challenges facing the global biogas plant market is the high initial capital costs associated with the planning, construction, and commissioning of biogas facilities. Biogas plants require a significant upfront investment in infrastructure, equipment, and technology to convert organic waste materials into biogas and subsequently generate electricity, heat, or biomethane.

The capital costs of a biogas plant vary widely depending on factors such as its size, location, technology used, and the availability of feedstock. Large-scale biogas plants designed to process substantial quantities of organic waste tend to have higher capital expenditures due to the need for larger digesters, more extensive gas treatment systems, and sophisticated monitoring and control systems.

Furthermore, the cost of land, permits, and compliance with regulatory requirements can significantly impact the overall project budget. The infrastructure necessary for the collection, transportation, and preprocessing of organic feedstock materials also adds to the financial burden.

While the long-term operational and maintenance costs of biogas plants are relatively low compared to fossil fuel-based energy generation, the high initial capital investment can be a significant deterrent for potential investors and project developers. Securing financing for biogas projects remains a challenge, especially for smaller operators and

regions with limited access to capital.

To address this challenge, governments and financial institutions need to develop innovative financing mechanisms, such as low-interest loans, grants, and subsidies, to incentivize investments in biogas infrastructure. Additionally, ongoing advancements in biogas technology and economies of scale can help reduce capital costs over time, making biogas projects more financially attractive.

### Feedstock Availability and Quality

Another significant challenge facing the global biogas plant market is the availability and quality of feedstock, which directly impacts the consistent and efficient operation of biogas facilities. Biogas production relies on organic materials such as agricultural residues, livestock manure, food waste, and sewage sludge as feedstock. However, the availability of suitable feedstock can be inconsistent and subject to seasonal variations.

In rural areas, where agriculture is the primary source of feedstock, the seasonality of crop harvesting and livestock manure production can result in fluctuations in biogas production. During periods of feedstock scarcity, biogas plants may operate at reduced capacity or even shut down temporarily, affecting their economic viability and reliability as a source of renewable energy.

Furthermore, the quality of feedstock can vary widely, affecting the efficiency of the anaerobic digestion process. Contaminants such as plastics, chemicals, and non-organic materials can disrupt the digestion process and lead to operational issues. High levels of impurities in feedstock can require additional preprocessing steps to remove contaminants, adding complexity and cost to the biogas production process.

Addressing the challenge of feedstock availability and quality requires a multifaceted approach. Governments and industry stakeholders can promote the development of efficient supply chains for organic waste materials, including transportation and storage infrastructure. Incentives and policies can encourage waste diversion and recycling efforts to ensure a consistent supply of high-quality feedstock for biogas plants.

Moreover, research and development efforts can focus on improving the flexibility of biogas plants to handle variations in feedstock and enhancing the tolerance of digesters to impurities. These innovations can help mitigate feedstock-related challenges and make biogas production more resilient and dependable.

In conclusion, the global biogas plant market faces challenges related to high initial capital costs and feedstock availability and quality. Addressing these challenges requires collaborative efforts from governments, industry stakeholders, and research institutions to develop innovative financing solutions, improve supply chains, and advance biogas production technologies. Overcoming these obstacles is essential for realizing the full potential of biogas as a sustainable and renewable energy source with numerous environmental and economic benefits.

## Segmental Insights

### Continuous Flow Filling Insights

The Continuous Flow Filling segment had the largest market share in 2022 & expected to maintain it in the forecast period. Continuous flow filling systems operate continuously, allowing for a steady and uninterrupted digestion process. This results in consistent biogas production, making it an efficient choice for large-scale biogas plants. The steady input and output of feedstock and digestate contribute to stable and reliable biogas production, which is essential for meeting energy production targets. Optimal for Large-Scale Facilities: Large industrial biogas plants, such as those associated with municipal wastewater treatment plants or agro-industrial operations, often handle substantial quantities of organic waste daily. Continuous flow systems are well-suited to handle the high volumes of feedstock encountered in these settings. They can process organic materials efficiently, making them a preferred choice for maximizing biogas output in larger installations. Continuous flow systems allow for precise control of operating conditions within the digester. Operators can adjust parameters like temperature, retention time, and mixing more effectively, optimizing the biogas production process. This level of control is particularly crucial for achieving optimal gas yields and waste digestion. Semi-batch filling systems, by their nature, involve periods of loading, digestion, and unloading, leading to downtime between cycles. Continuous flow systems minimize downtime as they do not require halting operations for loading and unloading. This operational continuity translates into higher overall plant efficiency and increased biogas production. Continuous flow filling systems can benefit from economies of scale. Larger plants often have lower unit costs due to better utilization of resources and equipment. This makes them more cost-effective in terms of biogas production on a per-unit basis. Continuous flow systems are better suited for specific feedstock types that are readily available and can be supplied consistently. For example, wastewater treatment plants consistently receive a continuous flow of sewage, which can be efficiently processed in a continuous flow digester. Continuous flow systems can more easily integrate combined heat and power (CHP) or cogeneration

units to maximize energy recovery. The consistent biogas production makes it feasible to use the generated heat and electricity for on-site needs or feed excess energy back into the grid..

## Electricity Generation Insights

The Electricity Generation segment had the largest market share in 2022 and is projected to experience rapid growth during the forecast period. Electricity is a highly versatile form of energy that can be easily integrated into existing power grids. This allows biogas plants to contribute directly to electricity supply, supporting energy demand in regions and industries that rely heavily on electricity. Electricity generation from biogas enhances energy security by providing a reliable and consistent source of power. Biogas plants can operate continuously, which is essential for maintaining a stable energy supply, especially in regions susceptible to energy shortages or grid fluctuations. Electricity is a versatile energy carrier that can be used in various applications, including residential, commercial, and industrial sectors. Biogas-generated electricity can power homes, businesses, and manufacturing facilities, making it appealing to a broad range of consumers. Many governments worldwide have set ambitious renewable energy targets, which often include specific goals for increasing the share of renewable electricity in the energy mix. Biogas, as a renewable energy source, aligns well with these targets and receives policy support to drive electricity generation projects. Biogas plants that generate electricity can also serve as grid stabilizers. They can respond quickly to changes in electricity demand, providing grid operators with a valuable tool for maintaining grid stability. This flexibility is especially crucial when integrating intermittent renewable sources like wind and solar into the grid. Government policies, such as feed-in tariffs (FiTs) and incentives, often favor electricity generation from renewable sources like biogas. FiTs guarantee favorable prices for biogas-generated electricity, incentivizing investments in biogas plants dedicated to electricity production. Electricity generation from biogas can be economically viable due to revenue streams from electricity sales, potential green certificate trading, and avoided energy costs. Biogas plants can often achieve favorable payback periods, making them attractive to investors and project developers. Biogas is considered an environmentally friendly energy source because it reduces greenhouse gas emissions. By generating electricity from biogas, not only is renewable energy produced, but also harmful methane emissions from organic waste are mitigated. Advances in biogas technology, including more efficient gas engines and generators, have made electricity generation from biogas even more attractive by improving efficiency and reducing operating costs.

## .Regional Insights

Asia Pacific had the largest market for biogas plants, accounting for over 30% of the global market share in 2022. The region is home to a large number of developing countries with a growing demand for renewable energy and waste management solutions. China is the leading producer and consumer of biogas in the world, followed by India and Thailand.

Europe had the second-largest market for biogas plants, accounting for over 25% of the global market share in 2022. The region has a long history of biogas production and has been a pioneer in the development of new biogas technologies. Germany, the UK, France, Spain, Italy, and Sweden are the major countries utilizing bio-based energy sources.

North America had the third-largest market for biogas plants, accounting for over 20% of the global market share in 2022. The region has a growing demand for biogas for electricity generation and transportation fuel. The United States is the leading producer and consumer of biogas in North America.

### Key Market Players

EnviTec Biogas AG

Weltec Biopower GmbH

Ameresco Inc

AB Holding SpA

StormFisher

Verbio Vereinigte BioEnergie AG

Greenlane Renewables Inc

WTS Wiltfang GmbH & Co. KG

Haarslev Industries A/S

PlanET Biogas Global GmbH

## Report Scope:

In this report, the Global Biogas Plant Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Biogas Plant Market, By Operation Mode:

Continuous Flow Filling

Semi-Batch Filling

### Biogas Plant Market, By Size:

Large Size Biogas Plant

Small Size Biogas Plant

### Biogas Plant Market, By Feedstock Type:

Agricultural Waste

Animal Waste

Sewage Sludge

Industrial Waste

Others

### Biogas Plant Market, By Application:

Electricity Generation

Heat Generation

Biofuel Generation

### Biogas Plant Market, By Industry Verticals:

Energy and Power

Oil and Gas

Automotive

Others

Biogas Plant Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Biogas Plant Market.

## Available Customizations:

Global Biogas Plant market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).





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