

Biogas Market Size Outlook: USD 133.26 Billion in 2024 to USD 212.97 Billion by 2034 | 4.80% CAGR Growth

The global biogas market was valued at approximately USD 133.26 billion in 2024 and is expected to reach around USD 212.97 billion by 2034

PUNE, MAHARASHTRA, INDIA, August 6, 2025 /EINPresswire.com/ -- □
Executive Summary

According to Zion market Research the latest research study, The [global biogas market](#) has emerged as a vital component of the renewable energy

sector, with a valuation of approximately USD 133.26 billion in 2024. It is projected to reach around USD 212.97 billion by 2034, growing at a compound annual growth rate (CAGR) of 4.80% between 2025 and 2034. The biogas industry is evolving rapidly, driven by growing

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Deepak Rupnar

environmental concerns, supportive regulatory frameworks, advancements in anaerobic digestion technology, and the increasing need for sustainable waste management solutions.

Access key findings and insights from our Report in this sample -

<https://www.zionmarketresearch.com/sample/biogas-market>

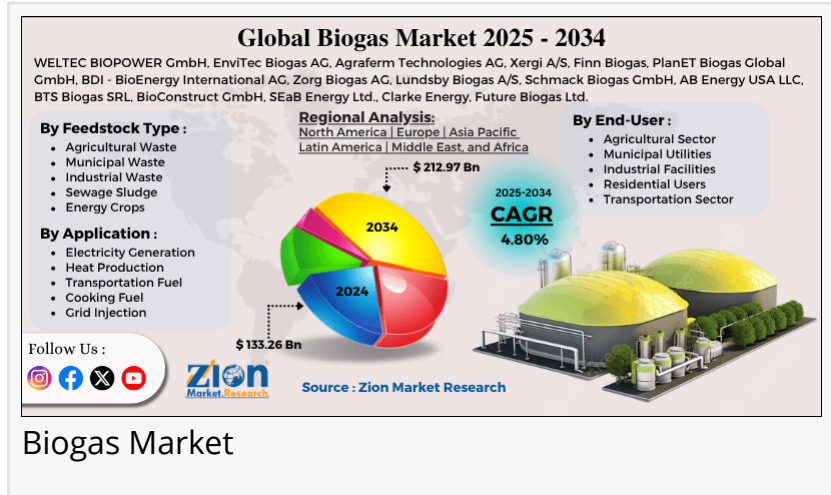
Key Insights:

As per the analysis shared by our research analyst, the

global biogas market is estimated to grow annually at a CAGR of around 4.80% over the forecast period (2025-2034)

In terms of revenue, the global biogas market size was valued at around USD 133.26 billion in 2024 and is projected to reach USD 212.97 billion by 2034.

The biogas market is projected to grow significantly due to rising demand for decentralized



energy solutions in rural areas, agricultural waste utilization for energy generation, and adopting biogas as a vehicle fuel alternative in transportation sectors.

Based on feedstock type, agricultural waste leads the market and will continue to lead the global market. Based on the application, electricity generation is expected to lead the market.

Based on the end-user, the agricultural sector is anticipated to command the largest market share.

Based on region, Europe is projected to lead the global market during the forecast period.

□ Market Dynamics

□ Growth Drivers

Environmental Benefits & Emissions Reduction

Biogas plays a crucial role in reducing greenhouse gas emissions by capturing methane from organic waste, making it an eco-friendly alternative to fossil fuels.

Government Support & Incentives

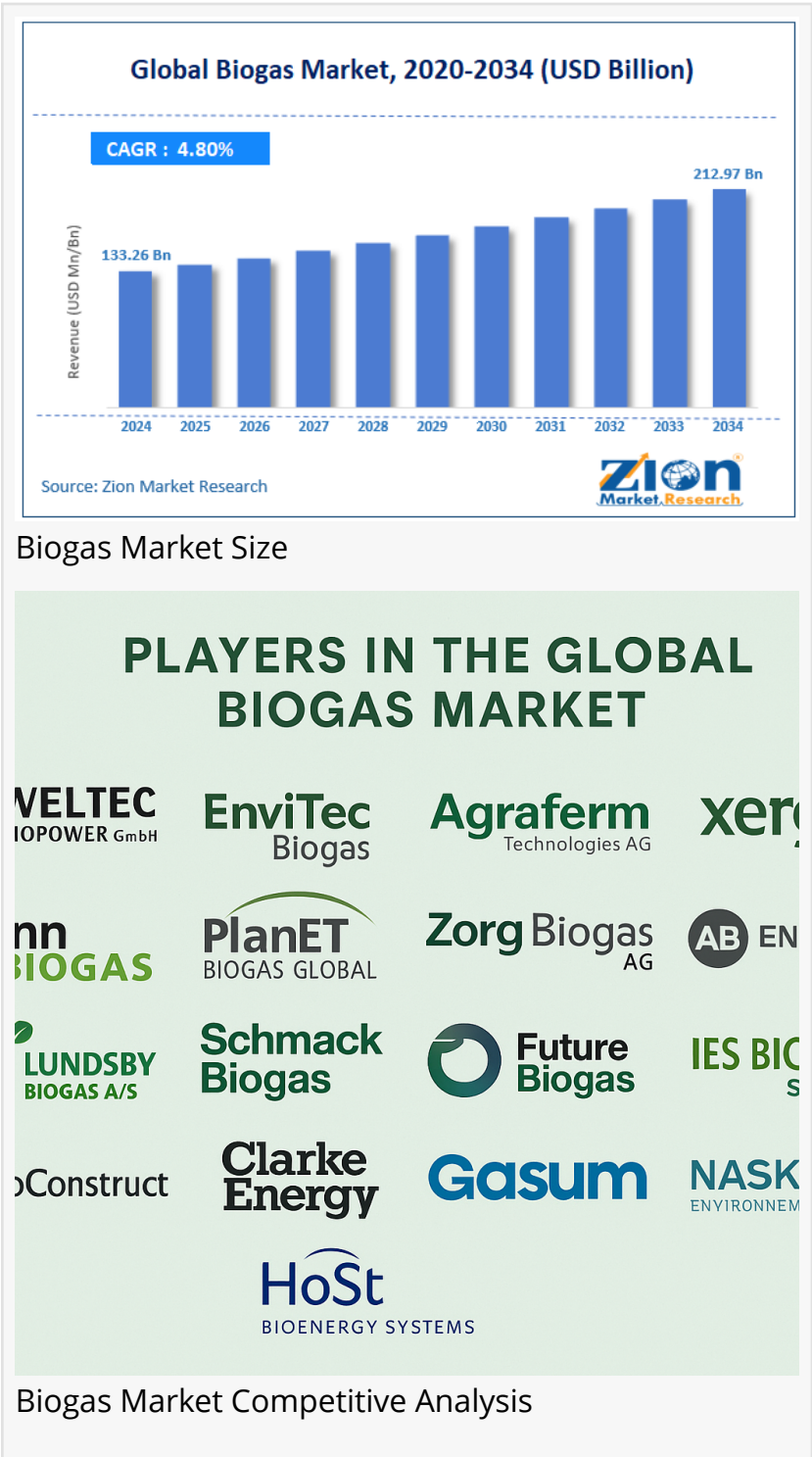
Many governments are promoting biogas through feed-in tariffs, subsidies, and tax incentives under climate action plans and energy transition strategies.

Waste Management and Circular Economy

Biogas supports circular economy models by converting agricultural waste, food waste, and wastewater into energy and biofertilizers.

Rural Electrification & Energy Access

In developing regions, biogas is increasingly used for cooking and power generation, contributing to rural electrification.



□ Restraints

High Initial Capital Costs

The construction and operation of biogas plants require significant investment.

Technical Challenges & Maintenance

Operation of digesters demands consistent feedstock quality and monitoring, posing barriers in less-developed regions.

□□ Opportunities

Biogas Upgradation to Biomethane

Technologies to purify biogas into high-quality biomethane open up new use cases such as grid injection and vehicle fuel.

Integration with Smart Grids

Biogas plants integrated with smart grids improve decentralized energy distribution.

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□ Regional Outlook

1. Europe

Leading Market Share due to strong climate policies, circular economy focus, and well-developed infrastructure.

Germany, France, and the Netherlands are pioneers in large-scale biogas adoption.

2. Asia Pacific

Fastest-growing Region, particularly in India and China.

Government programs such as India's SATAT initiative are propelling the growth of compressed biogas (CBG).

3. North America

Steady growth driven by renewable portfolio standards (RPS) and state-level incentives in the US and Canada.

Farm-based and landfill gas projects are significant contributors.

4. Latin America & Africa

Emerging markets with potential in agricultural waste utilization.

Need for improved infrastructure and policies to unlock growth.

□ Feedstock Analysis

Feedstock Type Market Role

Agricultural Waste Primary source for rural and industrial biogas

Food Waste Urban biogas production & municipal partnerships

Wastewater Sludge Widely used in sewage treatment plants
Industrial Organic Waste From food & beverage industries
Animal Manure Common in farm-based systems

□ Technology Landscape

Anaerobic Digestion – Dominant technology; scalable from household to industrial levels.

Landfill Gas Recovery – Captures methane from landfills for energy generation.

Thermochemical Conversion – Used in high-temperature biomass processing (less common but growing).

□ Application Insights

Segment Description

Electricity Generation- Biogas used in CHP systems to generate power

Vehicle Fuel - Upgraded to biomethane for use in transport

Cooking & Heating- Especially significant in rural and off-grid areas

Industrial Usage- Energy source in manufacturing and agro-industries

□ Forecast 2025–2034 (in USD Billion)

Year Market Size

2025- 139.65

2026- 146.36

2027- 153.43

2028- 160.88

2029- 168.73

2030- 176.98

2031- 185.66

2032- 194.78

2033- 204.34

2034- 212.97

□The global biogas market includes diverse participants like:

WELTEC BIOPOWER GmbH

EnviTec Biogas AG

Agraferm Technologies AG

Xergi A/S

Finn Biogas

PlanET Biogas Global GmbH

BDI - BioEnergy International AG

Zorg Biogas AG

Lundsby Biogas A/S

Schmack Biogas GmbH

AB Energy USA LLC

BTS Biogas SRL
BioConstruct GmbH
SEaB Energy Ltd.
Clarke Energy
Future Biogas Ltd.
IES BIOGAS Srl
Gasum Oy
HoSt Bioenergy Systems
Naskeo Environnement SAS

Inquiry For Buying-<https://www.zionmarketresearch.com/inquiry/biogas-market>

□□ Competitive Landscape & Strategic Insights

The biogas market is moderately consolidated, with major players focused on:

Mergers and acquisitions

Technology partnerships

Expansion into emerging markets

Pilot projects for biomethane and renewable natural gas (RNG)

□ Strategic Recommendations

Invest in modular and decentralized biogas systems for rural energy security.

Promote public-private partnerships (PPPs) to enhance infrastructure in developing regions.

Support R&D in biogas upgrading technologies for better efficiency and market expansion.

Align with global sustainability goals (SDG 7, 13, and 12) to attract green investment.

□ Conclusion

The global biogas market is at the forefront of renewable energy transformation. With its dual benefits of clean energy generation and waste management, the market is poised for significant growth over the next decade. Technological advancements, government support, and private investment will shape the trajectory of this sector toward a greener and more circular economy.

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