

# Biomethane Market worth \$5.06 billion by 2030, growing at a CAGR of 4.65% - Exclusive Report by 360iResearch

*The Global Biomethane Market to grow from USD 3.51 billion in 2022 to USD 5.06 billion by 2030, at a CAGR of 4.65%.*

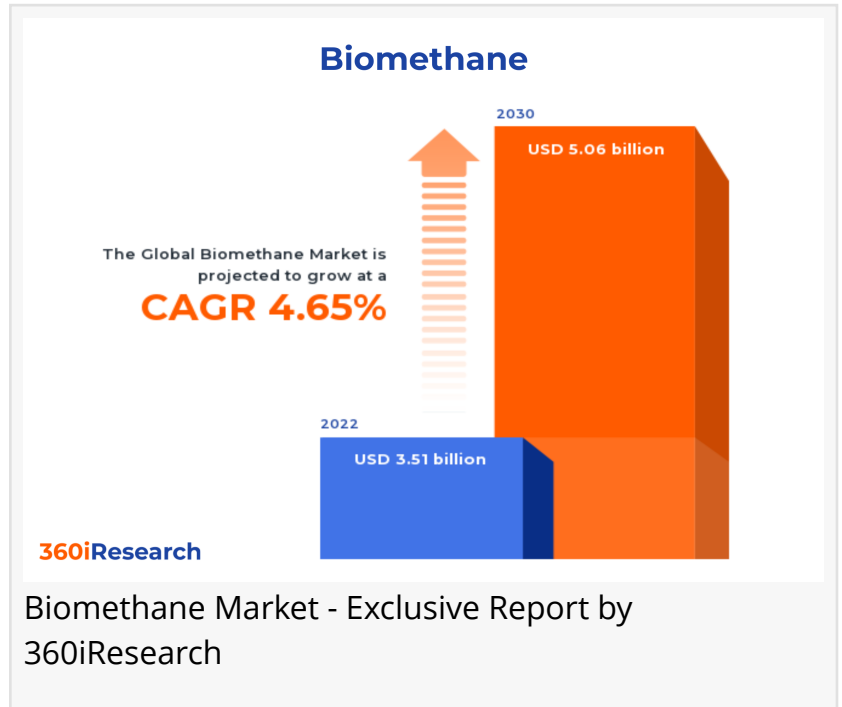
PUNE, MAHARASHTRA, INDIA ,  
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-- The "[Biomethane Market](#) by Feedstock (Agricultural Waste, Animal Manure, Energy Crops), Production Process (Anaerobic Digestion, Gasification, Pyrolysis), Application, End-use - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.

The Global Biomethane Market to grow from USD 3.51 billion in 2022 to USD 5.06 billion by 2030, at a CAGR of 4.65%.

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Biomethane is produced by fermentation or anaerobic digestion of organic matter such as animal manure, bio-waste, green, and agricultural waste under anaerobic conditions or by gasifying organic material. It is a clean, sustainable, and versatile energy source that helps reduce greenhouse gas emissions, providing a renewable alternative to fossil fuels. Governmental support through subsidies and grants and the growing trend of organic waste management are accelerating biomethane production globally. Increasing focus on energy efficiency and emission reduction is expanding the use of biomethane fuel as a substitute for diesel and petrol in cars, trucks, and buses. However, high development and operational costs, infrastructural challenges, and technical issues associated with the production and purification processes may adversely impact biomethane production. Moreover, technological



advancements in biomethane production are expected to improve production efficiency and quality of biomethane.

**Production Process:** Significant utilization of anaerobic digestion process for biomethane production

Anaerobic digestion converts organic waste materials into renewable energy sources such as biomethane. This process takes place in a sealed, oxygen-free tank called an anaerobic digester. Anaerobic digestion can process a wide range of organic waste, including manure and food waste, which makes it a preferred choice for businesses that generate a significant amount of bio-waste. Gasification involves heating organic waste at high temperatures in low-oxygen environments, producing a gas mixture consisting of carbon monoxide, carbon dioxide, and hydrogen, which is further upgraded to biomethane. Gasification is advantageous for large-scale operations, utilizing industrial and municipal solid waste. Pyrolysis entails heating organic material at high temperatures without oxygen, thus avoiding combustion. The resultant products include char, bio-oil, and syngas, which are convertible to biomethane. Pyrolysis is highly effective for treating woody biomass, agricultural residues, and non-recyclable waste materials.

**End-use:** Proliferating use of biomethane in the industrial sector

The commercial segment includes the usage of biomethane in commercial establishments such as malls, offices, and hotels for generating heat and electricity. These establishments prefer biomethane due to its cost-effectiveness, thermic security, and minimal environmental impact. The industrial depends on biomethane due to the crucial role of biomethane in various industrial operations like electric generation, heat production, or as a raw material in chemical industries. Industries with stringent environmental compliance need biomethane due to its low-emission properties. The residential segment comprises households that utilize biomethane for cooking, heating, and generating electricity. Biomethane is preferred for its environmental friendliness, sustainability, and relative safety. The commercial segment is driven by cost-effectiveness and the convenience of integrating biomethane into existing infrastructure. The industrial segment's growth is propelled by a combination of environmental compliance regulations and biomethane's utility in various industrial applications. The residential segment thrives on biomethane's eco-friendly and safety aspects.

**Feedstock:** Widespread usage of sewage sludge for biomethane production

Agricultural waste is used as feedstock in the generation of biomethane. It involves the use of farming by-products such as cereal straws and corn stover. Animal manure, predominantly from dairy and poultry farms, represents a significant potential resource for biomethane production. Energy crops such as maize, cassava, and sugar beet are energy-rich and generate high biomethane yields. Industrial food processing waste involves using residues and by-products from food and drink manufacturing to generate biomethane. Organic household waste consisting of food waste and garden residues is a promising source of biomethane feedstock. Sewage sludge is commonly used in many countries to manufacture biomethane due to its waste management and energy yield benefits.

Application: Expanding use of biomethane as alternative fuel

Biomethane is increasingly used as an alternative fuel, particularly in transportation. Due to its low carbon emissions and sustainability, it has emerged as a preferred choice for many companies and industries. The implementation of biomethane in Combined Heat and Power (CHP) systems has increased significantly as it allows simultaneous production of electricity and useful heat. Owing to their enhanced efficiency and reduced carbon footprint, biomethane-driven CHPs have gained traction across end-use industries. Biomethane is used for electricity generation, offering a competitive edge over conventional sources. Its sustainable and renewable properties make it an ideal choice, especially for countries seeking energy diversification. The utilization of biomethane in heat generation, especially in district heating networks, offers a renewable and CO2-neutral alternative to fossil fuels.

Regional Insights:

The biomethane market is evolving in the Americas owing to investments in renewable energy resources and ongoing research projects that aim to maximize the biomethane yield and automate the production process. Rising awareness about climate change and the need for renewable energy resources are among the critical drivers of biomethane production in the APAC region. EMEA represents significant advancements in the biomethane market due to supportive policies and high demand from end-use sectors in the region. Besides, the inclination towards adopting sustainable fuels and ongoing research to expand the use of biomethane is anticipated to encourage the growth of the biomethane market globally.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Biomethane Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Biomethane Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Biomethane Market, highlighting leading vendors and their innovative profiles. These include 2G Energy AG, AB Holdings SpA, Air

Liquide S.A., Bio2Watt Energy Holdings (Pty) Ltd, Bioenergy International, Biogas Products Ltd., BOKRAFT INTERNATIONAL AB, BioWorks Energy LLC, BTS Biogas Srl/GmbH, CNG Services Ltd., ENGIE Group, EnviTec Biogas AG, ETW Energietechnik GmbH, Future Biogas Limited, Greenlane Renewables, HZI Schmack GmbH by Hitachi Zosen Inova AG, IES BIOGAS srl, Orbital Gas Systems, Pentair PLC, PlanET Biogastechnik GmbH, Prodeval, Schmack Biogas Srl, Scotia Gas Networks Limited, Suomen Biovoima Oy, Synthica Energy, LLC, VERBIO AG, and WELTEC BIOPOWER GMBH.

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### Market Segmentation & Coverage:

This research report categorizes the Biomethane Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Feedstock, market is studied across Agricultural Waste, Animal Manure, Energy Crops, Industrial Food Processing Waste, Organic Household Waste, and Sewage Sludge. The Organic Household Waste is projected to witness significant market share during forecast period.

Based on Production Process, market is studied across Anaerobic Digestion, Gasification, and Pyrolysis. The Pyrolysis is projected to witness significant market share during forecast period.

Based on Application, market is studied across Alternative Fuel, Combine Heat & Power (CHP), Electricity Generation, and Heat Generation. The Alternative Fuel is projected to witness significant market share during forecast period.

Based on End-use, market is studied across Commercial, Industrial, and Residential. The Industrial is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Europe, Middle East & Africa commanded largest market share of 38.38% in 2022, followed by Asia-Pacific.

Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights
6. Biomethane Market, by Feedstock
7. Biomethane Market, by Production Process
8. Biomethane Market, by Application
9. Biomethane Market, by End-use
10. Americas Biomethane Market
11. Asia-Pacific Biomethane Market
12. Europe, Middle East & Africa Biomethane Market
13. Competitive Landscape
14. Competitive Portfolio
15. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Biomethane Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Biomethane Market?
3. What is the competitive strategic window for opportunities in the Biomethane Market?
4. What are the technology trends and regulatory frameworks in the Biomethane Market?
5. What is the market share of the leading vendors in the Biomethane Market?
6. What modes and strategic moves are considered suitable for entering the Biomethane Market?

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Mr. Ketan Rohom  
360iResearch  
+1 530-264-8485  
ketan@360iresearch.com

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