

# Global Green Methane Market Size Study & Forecast, by Source (Biogas from Anaerobic Digestion, Landfill Gas Recovery) and Application (Chemicals Production, Fertilizer Manufacturing) and Regional Forecasts 2025-2035

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## Abstracts

The Global Green Methane Market is valued at approximately USD 1.2 billion in 2024 and is poised to scale up at a remarkable CAGR of 18.50% over the forecast period spanning 2025–2035, with historical reference years firmly set as 2023 and 2024 and 2024 serving as the base year for estimation. Green methane, often positioned as a renewable and low-carbon alternative to conventional natural gas, is produced from organic and waste-derived sources through biological and thermochemical pathways. Its ability to seamlessly integrate into existing gas infrastructure while materially reducing greenhouse gas emissions has propelled it into the spotlight of global decarbonization strategies, particularly as industries look to future-proof their energy portfolios without compromising operational continuity.

Momentum across the market is being carried forward by intensifying climate commitments, tightening emission regulations, and the growing economic rationale behind circular energy systems. Governments and private stakeholders alike are doubling down on green methane as a scalable solution to convert waste streams into high-value energy carriers, thereby closing the loop between waste management and clean energy generation. At the same time, rapid advancements in microbial fermentation efficiency, gas upgrading technologies, and carbon accounting mechanisms are helping to bring down production costs, even as high initial capital requirements and regulatory complexity continue to temper adoption in price-sensitive regions.

The detailed segments and sub-segments included in the report are:

By Source:

Biogas from Anaerobic Digestion

Landfill Gas Recovery

By Application:

Chemicals Production

Fertilizer Manufacturing

By Regulatory Framework:

Government Incentives

Carbon Credit Systems

By Technology Type:

Microbial Fermentation

Thermochemical Processes

Biogas derived from anaerobic digestion is expected to dominate the Global Green Methane Market over the forecast horizon. This dominance is largely underwritten by the abundance of organic feedstock from agricultural residues, municipal waste, and wastewater treatment facilities, which allows projects to be scaled up with relative speed and predictability. Anaerobic digestion technologies have matured significantly, offering reliable yields and favorable economics, particularly when coupled with government-backed incentive programs. While landfill gas recovery continues to play a meaningful role, anaerobic digestion is increasingly being leaned on as the cornerstone source for long-term market expansion.

From a revenue perspective, applications in chemicals production currently account for the largest share of the market. Green methane is being actively taken up as a sustainable feedstock for producing methanol, ammonia, and other chemical intermediates, enabling manufacturers to decarbonize value chains without reengineering entire production systems. Fertilizer manufacturing follows closely, supported by rising demand for low-carbon ammonia and policy-driven pressure to reduce the environmental footprint of agricultural inputs. Together, these applications are anchoring revenue growth as industrial users transition from pilot projects to commercial-scale adoption.

Across regions, Europe stands out as an early mover and market leader, bolstered by aggressive climate targets, well-defined renewable gas policies, and mature carbon credit markets that enhance project bankability. North America is emerging as a high-growth contender, driven by abundant feedstock availability, supportive state-level incentives, and increasing corporate commitments to net-zero goals. Asia Pacific is expected to witness the fastest growth over the forecast period, as rapid industrialization, waste generation challenges, and evolving energy security concerns in countries such as China and India converge to create fertile ground for green methane investments. Latin America and the Middle East & Africa are gradually entering the fray, supported by improving regulatory clarity and international funding initiatives.

Major market players included in this report are:

ENGIE SA

Air Liquide S.A.

Shell plc

TotalEnergies SE

BP p.l.c.

Equinor ASA

Orsted A/S

SUEZ SA

Veolia Environnement S.A.

E.ON SE

EnviTec Biogas AG

Hitachi Zosen Corporation

Wartsila Corporation

Linde plc

Siemens Energy AG

#### Global Green Methane Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define the market size of various segments and regions in recent years and to forecast their trajectory through 2035. The report is designed to weave together quantitative market modeling with qualitative industry intelligence, highlighting key growth drivers, structural bottlenecks, and emerging opportunity

pockets within the Global Green Methane Market. It further delivers a detailed assessment of the competitive landscape and strategic positioning of leading players, equipping stakeholders with actionable insights to navigate a rapidly evolving renewable gas ecosystem.

#### Key Takeaways:

Market estimates and forecasts for 10 years from 2025 to 2035

Annualized revenue analysis at global and regional levels

In-depth geographical assessment with country-level insights

Competitive landscape profiling of major market participants

Strategic analysis of key business approaches and future growth pathways

Evaluation of the market's competitive structure

Comprehensive demand-side and supply-side analysis

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