

Global Biomethane Market: Analysis By Production, By Technology (Anaerobic Digestion, Thermal Gasification, and Others), By Feedstock (Municipal Solid Waste, Agriculture, Energy Crops, and Others), By End-Use (Transport Fuel, Power Generation, and Others), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2029

May 2024



Global Biomethane Market: Coverage

Executive Summary and Scope

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Impact Of COVID 19

Dynamics

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Global Biomethane Market: Coverage

Scope of the Report

Attributes	Details
Title	Global Biomethane Market: Analysis By Production, By Technology (Anaerobic Digestion, Thermal Gasification, and Others), By Feedstock (Municipal Solid Waste, Agriculture, Energy Crops, and Others), By End-Use (Transport Fuel, Power Generation, and Others), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2029
Coverage	Global and Regional
Regional Coverage	Europe (Germany, France, UK, Denmark, and Rest of Europe), North America (The US and Rest of North America), Asia Pacific (China, India, and Rest of the Asia Pacific), and Rest of the World
Market Influencing Variables	Growth Drivers, Challenges, Market Trends
Forecast Period of Market	2024-2029
Competition in the Market	Fragmented
Key Players	Veolia Group, EnviTec Biogas AG, ENGIE, E.ON SE (E.ON Bioerdgas GmbH), Verbio SE, Greenlane Renewables Inc., Landwärme GmbH, PlanET Biogas Group, The AB Group, Future Biogas Limited, Bioenergy Devco, and Renergon International AG

Global Biomethane Market: Coverage

Executive Summary

Biomethane is a renewable and sustainable form of energy. Derived from organic sources such as agricultural waste, food scraps, and animal manure, biomethane is a purified form of biogas, primarily composed of methane. The global biomethane market was valued at US\$3.66 billion in 2023. The market value would grow at a CAGR of 7.67% over the projected period of 2024-2029. On the other hand, the global biomethane market production is expected to reach 18.07 billion cubic meters by 2029.

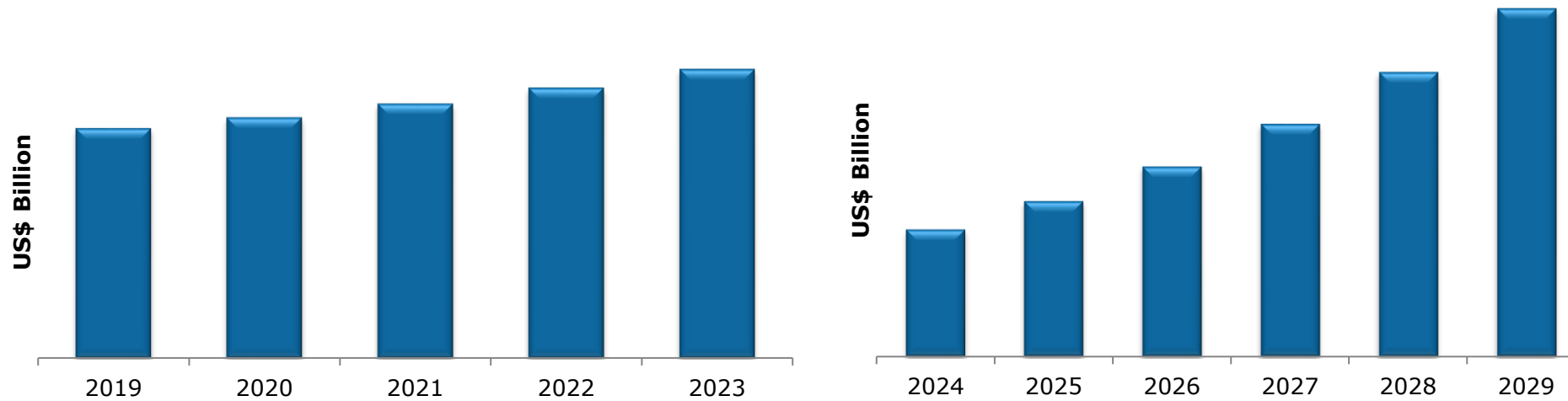
The global biomethane market can be segmented based on technology (Anaerobic Digestion, Thermal Gasification, and Others), feedstock (Municipal Solid Waste, Agriculture, Energy Crops, and Others), and end-use (Transport Fuel, Power Generation, and Others). Among the end-use, transportation fuel segment lead the market with the maximum share in 2023. On the other hand, Asia Pacific is expected to be the fastest-growing region in the forthcoming years.

While the COVID-19 pandemic initially posed challenges to the global biomethane market, including disruptions in production and reduced consumption, the market's long-term trajectory remains positive. Looking ahead, as economies rebound and prioritize green recovery strategies, biomethane is well-positioned to emerge as a key player in the transition towards a more sustainable and resilient energy landscape. The market is poised to capitalize on the momentum generated by the pandemic's emphasis on sustainability and resilience, with demand expected to rise across sectors such as transportation, power generation, and industrial applications.

The global biomethane market observed progressive growth in the past few years and anticipations are made that during the forecasted period (2024-2029), the market would further augment at an escalating growth rate. The global biomethane market growth is predicted to be supported by numerous growth drivers such as growing greenhouse gas emissions, increasing development of biomethane plants, increasing number of bio-LNG plants, growing electricity generation through renewable energy sources, growing establishment of biomethane refueling station, strengthening power generation infrastructure, government initiatives and key supportive policies, and many other factors. Conversely, the market growth would be negatively impacted by various challenges such as technological complexity, lack of public awareness, financial viability concerns, etc. Moreover, the market growth would succeed in various market trends like hydrothermal gasification, guarantees of origin (GoO) certificates, enhanced reactor configurations and process optimization, increasing awareness of circular economy, growing international trade and cooperation, integration with renewable energy systems, etc.

Biomethane Market: Global Analysis

Global Biomethane Market by Value



CAGR	
2019-2023	xx%
2024-2029	xx%

Global biomethane market was valued at US\$... billion in 2023 and is anticipated to reach up to US\$... billion by 2029 from US\$... billion in 2024, with a CAGR of xx%.

Biomethane Market: Global Analysis

Global Biomethane Market by Technology; 2023



Technology	Share
Anaerobic Digestion	xx%
Thermal Gasification	xx%
Others	xx%

Global Biomethane Market by Feedstock; 2023



Feedstock	Share
Municipal Solid Waste	xx%
Agriculture	xx%
Energy Crops	xx%
Others	xx%

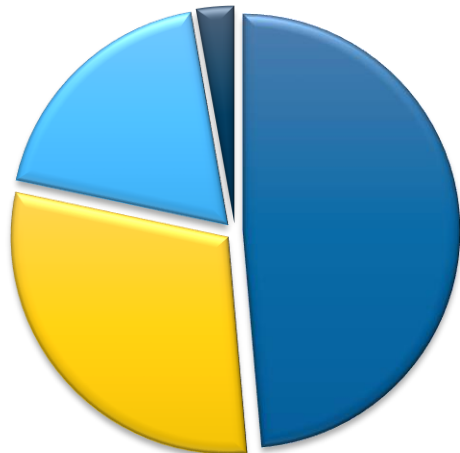
Biomethane Market: Global Analysis

Global Biomethane Market by End-Use; 2023



End-Use	Share
Transportation Fuel	xx%
Power Generation	xx%
Others	xx%

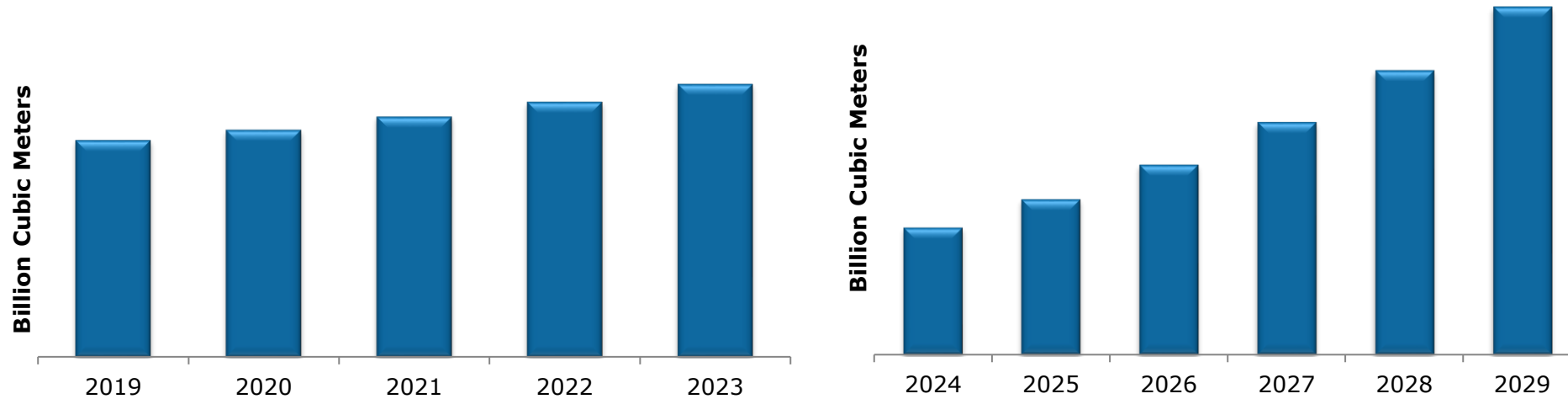
Global Biomethane Market by Region; 2023



Region	Share
Europe	xx%
North America	xx%
Asia Pacific	xx%
Rest of the World	xx%

Biomethane Market Production: Global Analysis

Global Biomethane Market by Production



CAGR	
2019-2023	xx%
2024-2029	xx%

Global biomethane market production reached at ... billion cubic meters in 2023 and is anticipated to reach up to ... billion cubic meters by 2029 from ... billion cubic meters in 2024, with a CAGR of xx%.

Biomethane Market Production: Global Analysis

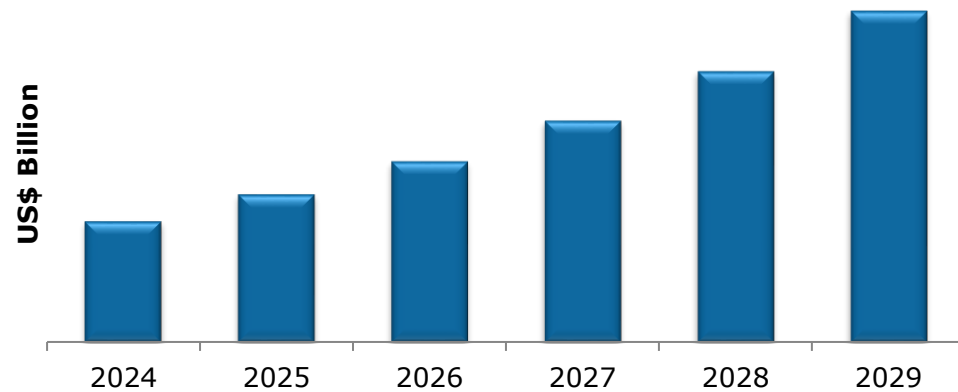
Global Biomethane Market Production by Region; 2023



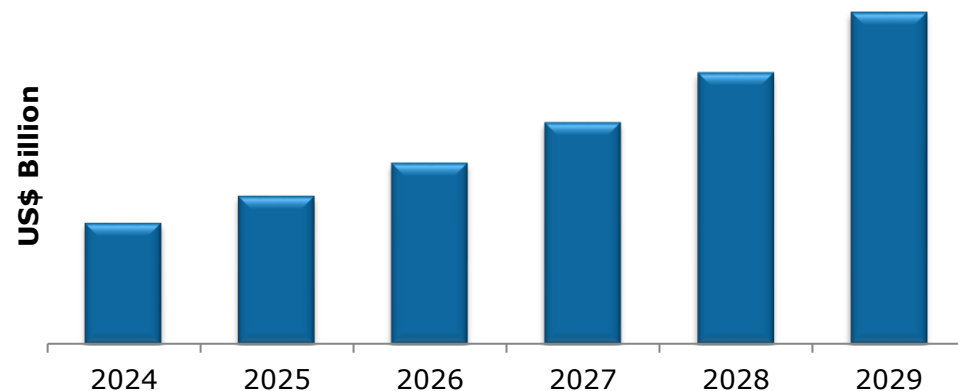
Region	Share
Europe	xx%
North America	xx%
Asia Pacific	xx%
Rest of the World	xx%

Biomethane Market: Technology Analysis

Global Anaerobic Digestion Biomethane Market by Value



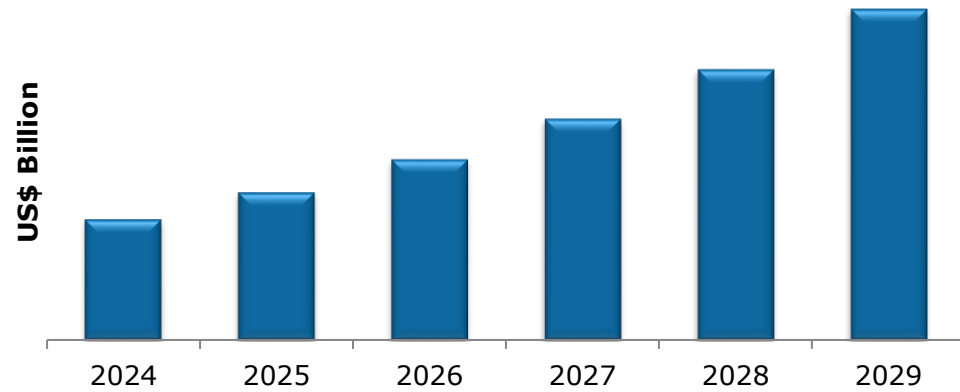
Global Thermal Gasification Biomethane Market by Value



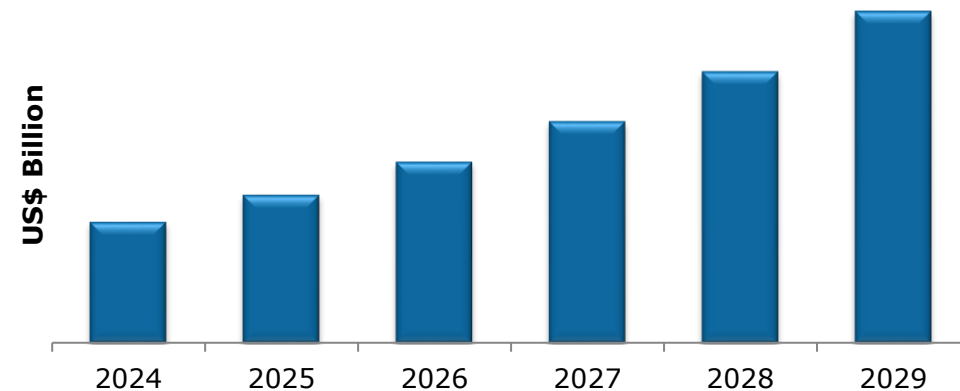
Technology	CAGR (2024-2029)
Anaerobic Digestion	xx%
Thermal Gasification	xx%
Others	xx%

Biomethane Market: Feedstock Analysis

Global Municipal Solid Waste Biomethane Market by Value



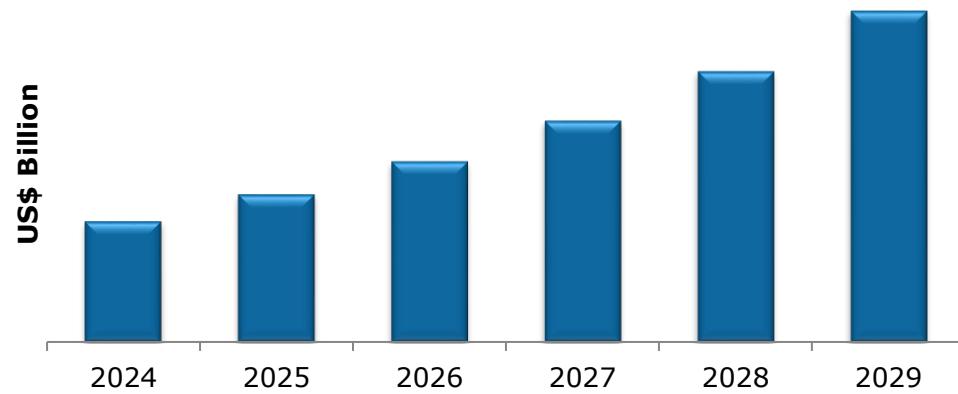
Global Agriculture Biomethane Market by Value



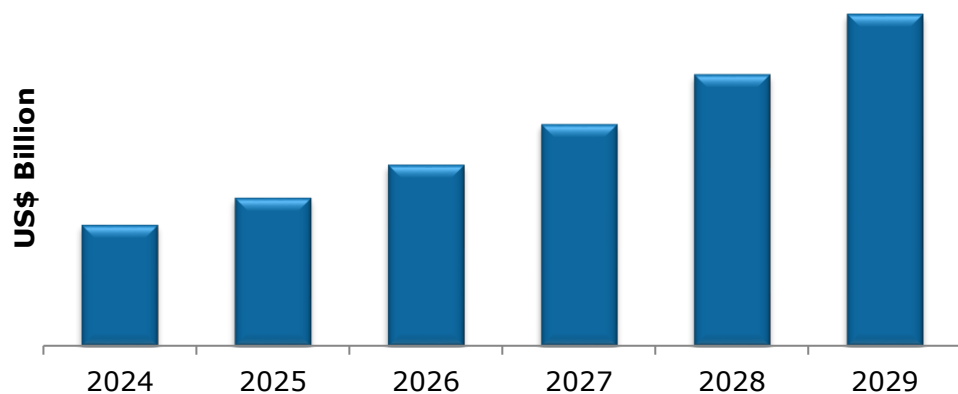
Feedstock	CAGR (2024-2029)
Municipal Solid Waste	xx%
Agriculture	xx%
Energy Crops	xx%
Others	xx%

Biomethane Market: End-Use Analysis

Global Transportation Fuel Biomethane Market by Value



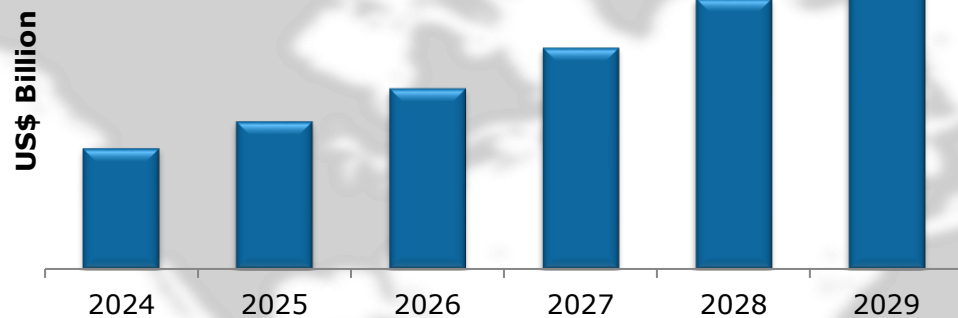
Global Power Generation Biomethane Market by Value



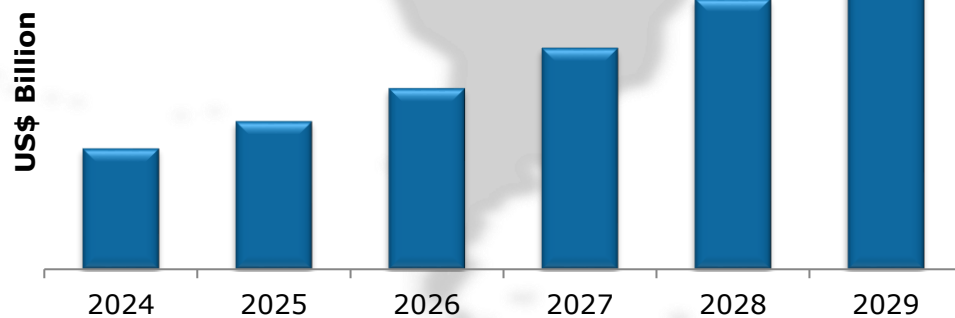
End-Use	CAGR (2024-2029)
Transportation Fuel	xx%
Power Generation	xx%
Others	xx%

Biomethane Market: Regional Analysis

Europe Biomethane Market by Value



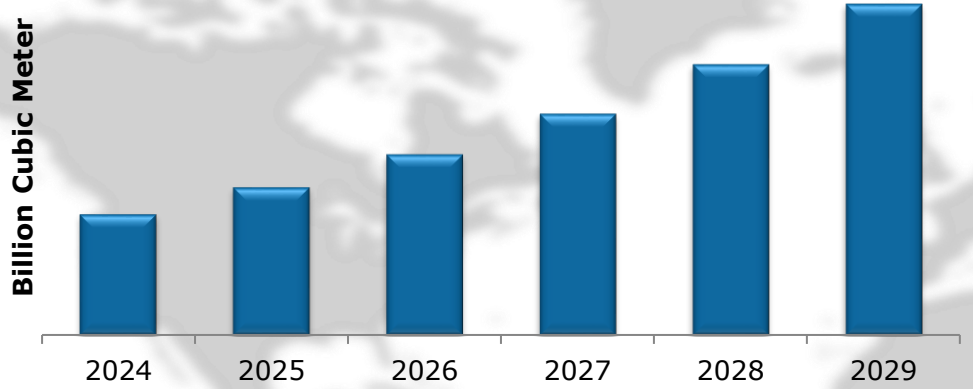
North America Biomethane Market by Value



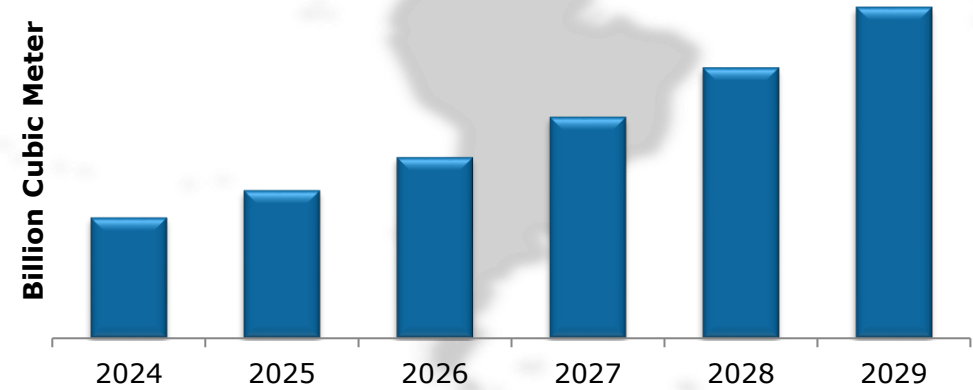
Region	CAGR (2024-2029)
Europe	xx%
North America	xx%
Asia Pacific	xx%
Rest of the World	xx%

Biomethane Market Production: Regional Analysis

Europe Biomethane Market by Production



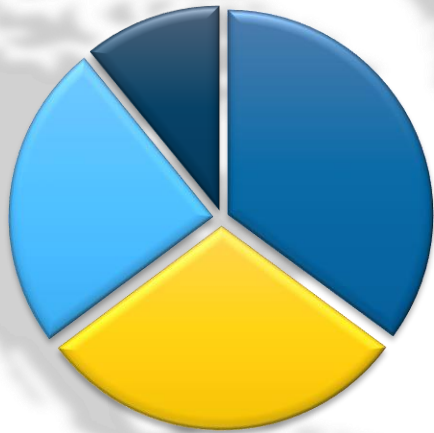
North America Biomethane Market by Production



Region	CAGR (2024-2029)
Europe	xx%
North America	xx%
Asia Pacific	xx%
Rest of the World	xx%

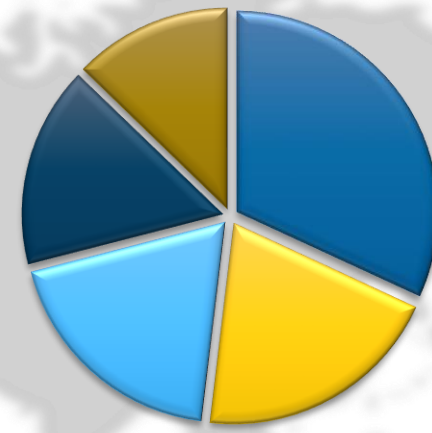
Europe Biomethane Market Production: An Analysis

Europe Biomethane Market Production by Feedstock; 2023



Feedstock	Share (2023)
Agriculture Residues	xx%
Energy Crops	xx%
Organic Waste	xx%
Others	xx%

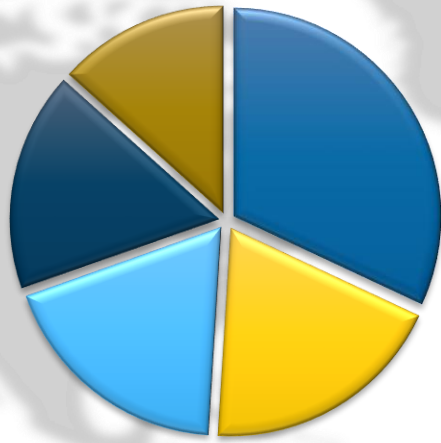
Europe Biomethane Market Production by End-Use; 2023



End-Use	Share (2023)
Building	xx%
Transport	xx%
Power	xx%
Industry	xx%
Others	xx%

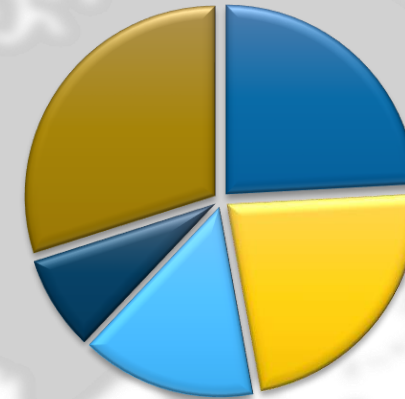
Europe Biomethane Market Production: An Analysis

Europe Biomethane Market Production by Region; 2023



Region	Share (2023)	CAGR (2024-2029)
Germany	xx%	xx%
France	xx%	xx%
UK	xx%	xx%
Denmark	xx%	xx%
Rest of Europe	xx%	xx%

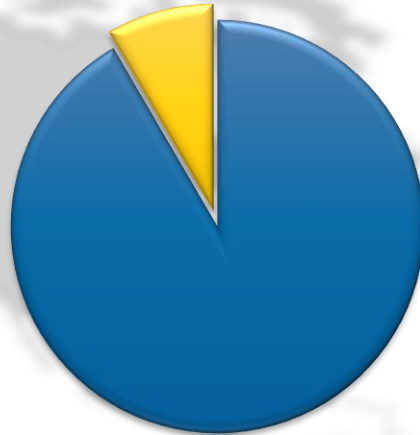
Germany Biomethane Market Production by End-Use; 2023



End-Use	Share (2023)
Industry	xx%
Power	xx%
Building	xx%
Transport	xx%
Others	xx%

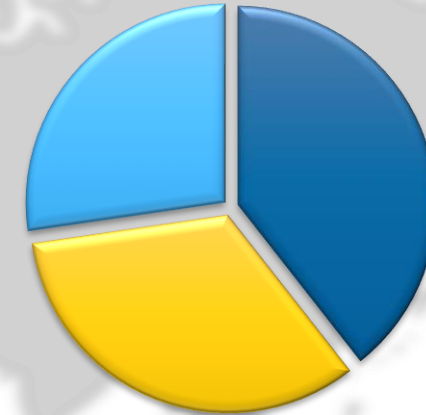
North America Biomethane Market Production: An Analysis

North America Biomethane Market Production by Region; 2023



Region	Share (2023)	CAGR (2024-2029)
The US	xx%	xx%
Rest of North America	xx%	xx%

The US Biomethane Market Production by Feedstock; 2023



Feedstock	Share (2023)
Municipal Solid Waste	xx%
Agriculture Waste	xx%
Food Waste & Waste Water	xx%

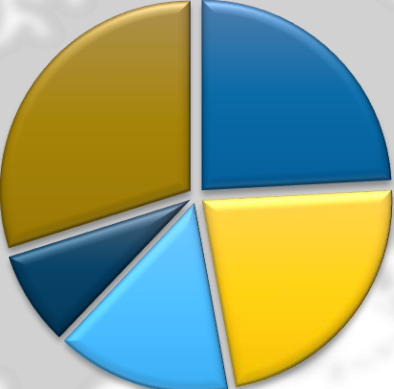
Asia Pacific Biomethane Market Production: An Analysis

Asia Pacific Biomethane Market Production by Region; 2023



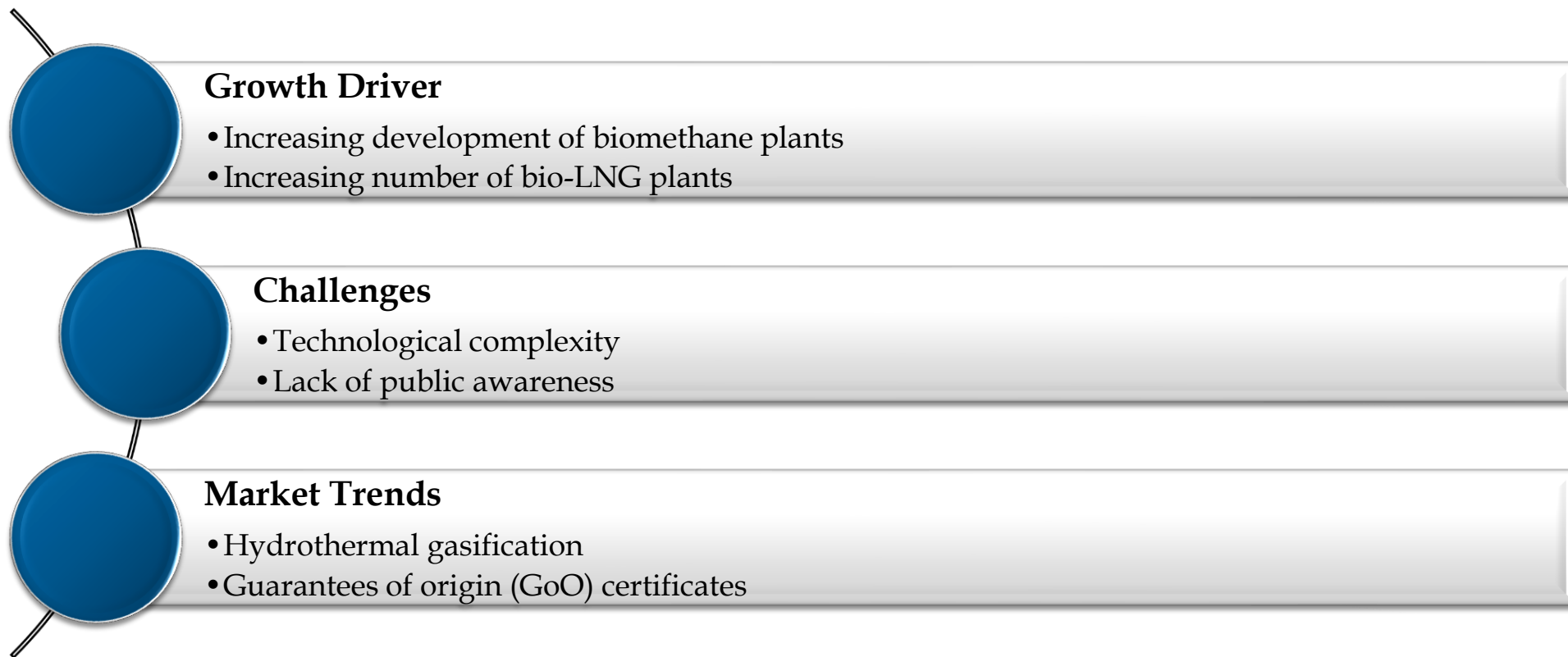
Region	Share (2023)	CAGR (2024-2029)
China	xx%	xx%
India	xx%	xx%
Rest of Asia Pacific	xx%	xx%

India Biomethane Market Production by Feedstock; 2023



Feedstock	Share (2023)
Agricultural Waste	xx%
Pressmud	xx%
Municipal Solid Waste	xx%
Animal Wastes	xx%
Others	xx%

Global Biomethane Market: Dynamics



Global Biomethane Market: Competitive Landscape

Players Profiled

- Veolia Group
- EnviTec Biogas AG
- ENGIE
- E.ON SE (E.ON Bioerdgas GmbH)
- Verbio SE
- Greenlane Renewables Inc.
- Landwärme GmbH
- PlanET Biogas Group
- The AB Group
- Future Biogas Limited
- Bioenergy Devco
- Renergon International AG