

# Biomass Gasification Technology Market Trends, Growth Forecast & Opportunities 2025–2032 | DataM Intelligence

*The Global Biomass Gasification Technology Market is expected to reach at a CAGR of 8.90% during the forecast period 2025-2032.*

AUSTIN, TX, UNITED STATES, June 11, 2025 /EINPresswire.com/ -- The Global [Biomass Gasification Technology Market](#) was valued at US\$ 34.66 million in 2024 and is expected to increase to US\$ 68.56 million by 2032, representing a compound yearly growth rate (CAGR) of 8.90% between 2025 and 2032.



## Market Overview:

Biomass gasification involves converting organic materials into combustible gas for power generation, heating, or chemical production. The technology is emerging as a critical pillar in the renewable energy sector due to its ability to reduce carbon footprints and manage agricultural and industrial waste efficiently. The global market is experiencing a surge in adoption across industrial, municipal, and utility sectors as nations seek carbon neutrality and energy independence.



The Biomass Gasification Technology Market is gaining momentum due to rising demand for clean energy, waste-to-energy solutions, and government support for renewable technologies."

*DataM Intelligence*

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Market Drivers and Opportunities:

Growing focus on renewable energy generation: Governments worldwide are promoting

bioenergy to diversify energy sources and cut dependence on fossil fuels.

Waste-to-energy trends: The conversion of agricultural and industrial biomass into energy offers dual benefits—sustainable power and effective waste management.

Rural electrification and off-grid solutions: Biomass gasification presents a viable solution for energy access in remote and rural areas.

Supportive regulatory frameworks: Incentives and carbon credits encourage companies to invest in gasification projects.

Market Segmentation:

By Source:

Agricultural Waste

Forest Waste

Animal Waste

Municipal Waste

Others.

By Gasifier:

Fixed Bed Gasifier

Fluidized Bed Gasifier

Entrained Flow Gasifier

Others.

By Application:

Power Generation

Transportation Fuels

Hydrogen Generation

Heat Generation

Chemicals and Fertilizer Production

Others.

By End-user:

Industrial

Utilities

Residential and Commercial Buildings

Agriculture

Others.

By Region:

North America

Latin America  
Europe  
Asia Pacific  
Middle East and Africa.

#### Geographical Share:

Asia-Pacific dominates the global biomass gasification technology market due to its abundant agricultural waste and strong policy support, particularly in countries like India, China, and Japan.

Europe follows closely with its robust sustainability goals and circular economy initiatives.

North America is rapidly scaling up its infrastructure, with the U.S. focusing on reducing landfill waste and adopting carbon-neutral technologies.

#### Key Players:

Leading companies driving innovation in the biomass gasification technology market include:

ThyssenKrupp AG  
Air Liquide  
Synthesis Energy Systems, Inc. (SES)  
Valmet Corporation  
Mitsubishi Heavy Industries, Ltd.  
Ankur Scientific Energy Technologies Pvt. Ltd.  
Eqtec PLC  
SPG Dry Cooling  
Nexterra Systems Corp.  
Babcock & Wilcox Enterprises, Inc.

These players are investing heavily in R&D and strategic partnerships to deliver efficient, scalable, and cost-effective gasification systems worldwide.

#### Recent Developments:

##### United States

March 2025: A leading U.S. bioenergy firm inaugurated a \$120 million commercial-scale biomass gasification plant in Iowa, expected to power 50,000 homes annually.

September 2024: The U.S. Department of Energy announced \$45 million in funding to support R&D in advanced biomass gasification systems as part of its clean energy initiative.

Japan

January 2025: A major Japanese energy conglomerate partnered with local municipalities to deploy modular gasification units across rural regions, aiming to reduce waste and boost decentralized energy production.

August 2024: Japan's Ministry of Environment approves new guidelines promoting the use of agricultural leftovers in biomass gasification facilities to reach 2030 emission reduction targets.

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Conclusion:

The global biomass gasification technology market is on a trajectory of rapid growth, underpinned by sustainability imperatives, government support, and technological advancements. With increasing investments and cross-border collaborations, the industry is poised to play a pivotal role in the global transition to clean energy.

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