

Biomass Gasification Market Report and Forecast 2025-2034

Market Report | 2025-08-13 | 166 pages | EMR Inc.

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Report description:

The global biomass gasification market size reached a value of almost USD 116.87 Billion in the year 2024 . The global biomass gasification market is further expected to grow at a CAGR of 8.70% between 2025 and 2034 to reach a value of almost USD 269.15 Billion by 2034 .

The global biomass gasification market is led by Europe, which is followed by North America. Europe's leading position in the industry can be attributed to the high demand for biomass, which is majorly used for offering electricity to households and institutions. The industry is further aided by its viability as an alternative to coal-based power generation. The growing environmental concerns have led to an increasing number of companies seeking out eco-friendly energy sources. As a result, the biomass gasification market in Europe has shown a significant growth rate as compared to other energy sources. Further, the governments in the region are supporting the growth of the industry through several policies and regulations. The abundant availability of biomass is also propelling the market growth in Europe.

Market Segmentation

Biomass gasification is referred to as the process of converting solid biomass into combustible gas through a series of thermo-chemical reactions. This process produces energy, which can be used for generating electricity, cooking food, heating, and transportation. Biomass gasification has become popular over the years, especially in emerging economies, as they aim to achieve energy efficiency.

The biomass gasification market is divided on the basis of source into:

- Solid Biomass
- Biogas
- Municipal Waste
- Liquid Biomass

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- Others

Presently, solid biomass, including wood and other organic matter, represents the most significant source of biomass electricity production owing to its renewable and sustainable nature.

The biomass gasification market is divided on the basis of region into:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Market Analysis

The global biomass gasification market is driven by the rising environmental concerns and escalating greenhouse gas emissions, leading to a growing shift towards environment-friendly energy sources. The process helps convert waste into electricity and other useful products. Owing to this, it aids in minimizing the methane emissions from the organic materials' decomposition in landfills, in confluence with decreasing the groundwater contamination and landfill spaces.

The industry is further aided by the abundant biomass availability, along with the several initiatives taken by the governments of various countries to encourage the use of renewable sources of energy. The industry growth may find obstruction in the form of high cost in the gasification process.

Competitive Landscape

The report gives a detailed analysis of the following key players in the global biomass gasification market, covering their competitive landscape, capacity, and latest developments like mergers, acquisitions, and investments, expansions of capacity, and plant turnarounds:

- Thyssenkrupp AG
- Siemens
- Synthesis Energy Systems, Inc.
- Mitsubishi Heavy Industries, Ltd.
- Others

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis.

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