

Global Biomass Gasification Power Plant Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Biomass Gasification Power Plant market size is predicted to grow from US\$ 2275 million in 2025 to US\$ 3813 million in 2032; it is expected to grow at a CAGR of 7.7% from 2026 to 2032.

A Biomass Gasification Power Plant is a renewable energy facility that converts low-calorie solid biomass energy resources, such as agricultural and forestry wastes, wood scraps, and organic household garbage, into combustible gas (including carbon monoxide, hydrogen, and low-molecular hydrocarbons) through pyrolysis, oxidation, and reduction reforming reactions under specific thermodynamic conditions with the assistance of air, oxygen, or steam, and then drives generators to produce electricity through gas-fired boilers, gas turbines, or internal combustion engines. It realizes the resource utilization of biomass wastes, solves the problem of waste pollution while providing high-grade electrical energy, and is particularly suitable for small and medium-sized applications in rural areas, developing regions, and enterprises with concentrated biomass wastes due to its flexible layout and low investment threshold compared with traditional coal-fired power plants.

The demand for biomass gasification power plants shows a steady growth trend, and there are broad business opportunities driven by multiple factors. In terms of demand, with the global promotion of carbon neutrality and renewable energy development strategies, the demand for clean and low-carbon power supply is increasing; especially in rural areas and remote regions with insufficient traditional power supply and abundant biomass resources, small and medium-sized biomass gasification power plants have strong demand for solving local power supply problems. In addition, industrial enterprises with concentrated biomass wastes (such as rice mills and wood processing factories) have strong demand for on-site power generation to reduce energy costs and

waste treatment pressure. In terms of business opportunities, first, the policy support for renewable energy provides policy guarantees and financial subsidies for the construction and operation of biomass gasification power plants, reducing the investment risk of enterprises. Second, the continuous improvement of gasification technology (such as tar cracking technology and high-temperature dry gas purification technology) and the localization of equipment reduce the operation cost and technical threshold, promoting the large-scale promotion of the industry. Third, the integration of biomass gasification power generation with agriculture, forestry, and environmental protection industries can form a circular economy model, creating additional business value; at the same time, the development of distributed power generation models provides new market space for small and medium-sized biomass gasification power plants. In addition, the listing and development of related enterprises in the capital market also provide financial support for the industrial development, further expanding business opportunities.

LPI (LP Information)' newest research report, the “Biomass Gasification Power Plant Industry Forecast” looks at past sales and reviews total world Biomass Gasification Power Plant sales in 2025, providing a comprehensive analysis by region and market sector of projected Biomass Gasification Power Plant sales for 2026 through 2032. With Biomass Gasification Power Plant sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Biomass Gasification Power Plant industry.

This Insight Report provides a comprehensive analysis of the global Biomass Gasification Power Plant landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Biomass Gasification Power Plant portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Biomass Gasification Power Plant market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Biomass Gasification Power Plant and breaks down the forecast by Gasifier Technology, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Biomass Gasification Power Plant.

This report presents a comprehensive overview, market shares, and growth opportunities of Biomass Gasification Power Plant market by product type, application, key players and key regions and countries.

Segmentation by Gasifier Technology:

Fixed Bed Gasification

Bubbling Fluidized Bed Gasification

Circulating Fluidized Bed Gasification

Dual Fluidized Bed Gasification

Segmentation by Power Generation Configuration:

Syngas Engine-CHP Systems

Gas Turbine Combined Cycle (IGCC)

Syngas Boiler-Steam Turbine Systems

Co-Firing With Existing Boilers/Turbines

Segmentation by Plant Scale:

Micro And Modular Plants

Small Distributed CHP Plants

Medium Industrial Plants

Large Utility-Scale Plants

Segmentation by Application:

Energy and Utilities

Oil, Gas and Fuel

Industrial Manufacturing

Waste Management and Circular Economy

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

GEMCO Energy

POWERMAX

AIR TECHNIC

Haiqi Environmental Protection Technology

Valmet

ANDRITZ

Sumitomo Heavy Industries

EQTEC

Nexterra Systems

Spanner Re?

Burkhardt Energy

Ankur Scientific

All Power Labs

XYLOWATT

ENTRADE Energiesysteme

PRM Energy Systems

SYNCRAFT

Jinan Huangtai Gas Furnace

Arvind Envisol

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