

electrification in urban as well as rural areas, depleting fossil fuels, and rapid commercialization of biomass gasification. Reducing carbon footprint by producing energy from biomass boosts the growth of the biomass gasification market. Moreover, several governments are considering biomass gasification as a cleaner alternative to producing hydrogen and heat as relatively fewer greenhouse gases are emitted in the process rather than incinerating the biomass. However, high installation and maintenance cost discourages market growth at its full potential. This acts as a restraint for biomass gasification market growth.

The major challenge faced by the biomass gasification industry is that these gasification plants can only be set up majorly for small and medium outputs. The larger plants are expensive and require to be maintained frequently. This remains a great challenge to bring down the cost of the technology and hence commercialize the biomass gasification industry. However, biomass gasification market opportunities lie in overcoming the challenges by advancing and commercializing the existing technologies.

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The biomass gasification market size is segmented based on gasifier type, application, source, and region. By gasifier type, the market is segmented into moving or fixed beds, fluidized beds, entrained, and others. By gasifier type, the moving or fixed bed gasifiers segment dominated the market share for 2021. The moving or fixed bed gasifier can be operated at very high temperatures which act as a driving factor for market growth.

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The Biomass Gasification industry's key market players adopt various strategies such as product launches, product development, collaboration, partnership, and agreements to influence the market. It includes details about the key players in the market's strengths, product portfolio, market size and share analysis, operational results, and market positioning.

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- Beltran Technologies, Inc.
- Goteborg Energi AB
- Vaskiluoto Voima Oy
- Chanderpur Works Private Limited
- Ankur Scientific Energy Technologies Pvt. Ltd.
- KASAG Swiss AG
- Thyssenkrupp AG
- Infinite Energy Pvt. Ltd.
- Valmet Corporation
- EQTEC plc

However, they produce a high amount of tar or unfinished char, and thus, during the biomass gasification market forecast, the fluidized bed is expected to grow at a higher CAGR. Fluidized bed gasifiers are complicated systems, but are capable of producing gas with a very high heating value.

Depending on the application, the market is divided into chemicals, liquid fuels, power, and gas fuels. The power sectors garnered the largest market biomass gasification market share in terms of revenue for 2021 and are expected to continue to grow at a higher CAGR. This is attributed to the fact that the heat energy produced will majorly be sourced into the production of electricity as it will prove to be a cleaner form of electricity generation, especially in a scenario where reducing carbon footprint and increasing primary energy production is being sought out.

Based on source, the market is further divided into solid biomass, liquid biomass, biogas, municipal waste, and others. The solid biomass segment dominated the market share for 2021 and is expected to grow at a higher CAGR during the forecast period. This is attributed to a large amount of available solid biomass in the forms of wood pellets, wood chippings, corncobs, soybeans, sugar cane, switchgrass, woody plants, and food processing residues.

Region-wise, the biomass gasification market analysis is done across North America, Europe, Asia-Pacific, and LAMEA (Latin America, the Middle East, and Africa). Europe dominated the market for biomass gasification in 2021 and is expected to maintain its dominance during the projection years. This is owing to the presence of major players in the market and the fact that Europe is committed to reducing its dependence on fossil fuels for primary energy following its 2030 and net zero 2050 targets. European Union is a big consumer of primary energy owing to its high energy demands during winter as well as summer seasons owing to its weather, and thus, relying on biomass gasification seems as a much more feasible and environment-friendly option to cut down carbon emissions and produce energy.

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Key highlights of the report:

- Europe is projected to grow at the highest CAGR of approximately 8.3%, in terms of revenue during the biomass gasification market forecast period
- The power application dominated the biomass gasification market share by over 56.9% in 2021
- By source, solid biomass dominated the biomass gasification market and is expected to grow at a CAGR of 8.2% during the forecast period
- Patent analysis shows that China holds 61.4% of patents in the biomass gasification market.

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