

# Biomass Gasification Market Estimation Worth \$188.5 billion by 2031

*Global Biomass Gasification Market projected to grow at a CAGR of 8% from 2022 to 2031*

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According to a new report published by Allied Market Research, the [biomass gasification market](#) size was valued at \$88.0 billion in 2021, and is estimated to reach \$188.5 billion by 2031, growing at a CAGR of 8% from 2022 to 2031.



Biomass gasification is a process to convert biomass into gases and energy. This is done through combustion at high temperatures under a controlled oxygen supply. This process yields carbon monoxide, carbon dioxide, and hydrogen.

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An increase in waste management operations and electrification activities are the upcoming trends in the biomass gasification market.”

*Allied Market Research*

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Europe is projected to grow at the highest CAGR of approximately 8.3%, in terms of revenue during the biomass gasification market forecast period. 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.

The key players in the [global biomass gasification industry](#) are Beltran Technologies, Inc., Vaskiluodon Voima Oy, EQTEC plc, Chanderpur Works Private Limited, Ankur Scientific Energy Technologies Pvt. Ltd., Infinite Energy Pvt. Ltd., Valmet Corporation, KASAG Swiss AG, Goteborg Energi AB, and Thyssenkrupp AG.

Biomass gasification market growth is driven by several factors, such as the presence of biomass in abundance. Since biomass is available in massive amounts, rather than being incinerated or ending up in landfills, biomass, especially MSW source of biomass, is combusted to produce heat and gas. This heat and gases are further used as fuel, feedstock, and other such uses.

The market is highly driven by increased activities in solid waste management, increased electrification in urban as well as rural areas, depleting fossil fuels, and rapid commercialization of biomass gasification.

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Reducing carbon footprint by producing energy from biomass boosts the growth of the biomass gasification market.

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.

The carbon monoxide produced is treated in water where it reacts with water molecules to further produce hydrogen and carbon dioxide.

The hydrogen hence produced is used as fuel or feedstock in several applications. Whereas carbon dioxide is used by plants for photosynthesis.

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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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.

On the basis of source, the market is further divided into solid biomass, liquid biomass, biogas,

municipal waste, and others.

The solid biomass dominated the [biomass gasification market share](#) and is expected to grow at a CAGR of 8.2% 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.

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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 is 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.

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David Correa  
Allied Market Research  
+1 800-792-5285  
[email us here](#)  
Visit us on social media:  
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