

# **Solid Biomass Feedstock Market by Source (Agriculture, Forest, Municipal), Type (Chips, Pellets, Briquettes), Application (Electricity, Heat, Biofuel), End User (Residential & Commercial, Industrial, Utilities) & Region - Global Forecast to 2029**

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## **Abstracts**

The global solid biomass feedstock market is estimated to grow from USD 26.6 billion in 2024 to USD 36.2 Billion by 2029; it is expected to record a CAGR of 6.3% during the forecast period. The Growing global awareness of the urgent need to mitigate climate change, supportive government policies and incentives drive the solid biomass feedstock market. The market for solid biomass feedstock is expected to grow due to the implementation of stringent emission laws. Moreover, the increasing need to reduce the dependence on fossil fuels and focus on renewable energy for power generation is projected to drive the market during the forecast period.

“Forest Waste: The largest segment of the solid biomass feedstock market, by source.  
“

Based on source, the solid biomass feedstock market has been segmented into agriculture waste, forest waste, animal waste, and municipal waste. The forest waste segment is expected to be the largest segment during the forecast period. Agriculture biomass feedstock has the potential to meet the growing demand for bioenergy due to its availability in abundance. The utilization of forest waste biomass for bioenergy production not only offers a renewable energy solution but also efficiently handles forest residues, decreasing the buildup of surplus biomass that could otherwise escalate wildfire risks.

“Pellets is expected to be the largest segment during the forecast period based on

type.”

By type, the solid biomass feedstock market has been split into four types: chips, pellets, briquettes, and others. Governments worldwide are offering subsidies and incentives to promote biomass pellet usage, aligning with renewable energy targets to drive demand. For example, The Biomass Thermal Utilization Act (BTU Act) in North America and initiatives by the Indian Renewable Energy Development Agency (IREDA) further support biomass pellet adoption

“By application, biomethane segment is expected to be the fastest growing segment during the forecast period.”

Based on the application, the solid biomass feedstock market is segmented into electricity, heat, biofuel, and biomethane. The biomethane segment is expected to be the fastest growing segment of the solid biomass feedstock market during the forecast period. Biomethane can be used as a substitute of natural gas to combat environment emission as well as existing infrastructure compatibility drives the demand for biomethane.

“Asia Pacific is expected to be the largest region in the solid biomass feedstock market.”

Asia Pacific is expected to be the largest region in the solid biomass feedstock market during the forecast period. Governments in countries such as China, Japan and India are playing a proactive role in reducing CO<sub>2</sub> emissions which fosters the growth of biofuel and biomethane in the region. The increasing adoption of biofuels and biomethane in the region drives the growth of the solid biomass feedstock market. Initiatives to reduce CO<sub>2</sub> emissions using biofuel, heat, and electricity and improve energy efficiency are supported by the Ministry of New and Renewable Energy (MNRE), International Renewable Energy Agency (IRENA), International Monetary Fund (IMF), International Institute of Sustainable Development, Bioenergy International; as a result, manufacturing solid biomass feedstock is encouraged.

Breakdown of Primaries:

In-depth interviews have been conducted with various key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, to obtain and verify critical qualitative and quantitative information and assess future market prospects. The distribution of primary interviews is as follows:

*Solid Biomass Feedstock Market by Source (Agriculture, Forest, Municipal), Type (Chips, Pellets, Briquettes),...*

By Company Type: Tier 1- 65%, Tier 2- 24%, and Tier 3- 11%

By Designation: C-Level- 30%, Director Level- 25%, and Others- 45%

By Region: North America- 20%, Europe- 25%, Asia Pacific- 30%, Middle East & Africa- 15%, South America- 10%

Note: Others include sales managers, engineers, and regional managers.

Note: The tiers of the companies are defined on the basis of their total revenues as of 2022. Tier 1: > USD 1 billion, Tier 2: From USD 500 million to USD 1 billion, and Tier 3: The solid biomass feedstock market is dominated by a few major players that have a wide regional presence. The leading players in the solid biomass feedstock market are Stora Enso (Finland), Drax Group plc (UK), Segezha Group (UK), Enviva Inc. (US), and Lignetics, Inc. (US). The major strategy adopted by the players includes new partnerships, collaboration, acquisition, and investments & expansions.

Research Coverage:

The report defines, describes, and forecasts the global solid biomass feedstock market by source, type, application, end user and region. It also offers a detailed qualitative and quantitative analysis of the market. The report comprehensively reviews the major market drivers, restraints, opportunities, and challenges. It also covers various important aspects of the market. These include an analysis of the competitive landscape, market dynamics, market estimates in terms of value, and future trends in the direct air capture market.

Key Benefits of Buying the Report

Increasing emphasis on net zero emission and supportive government policies, and need for alternative to fossil fuels are few of the key factors driving the solid biomass feedstock market. Factors such as complexities associated with pre treatment restrain the growth of the market. The growing energy transition towards reducing carbon emission is expected to present lucrative opportunities for the players operating in the solid biomass feedstock market. The logistics and supply chain management challenges pose a major challenge for the players, especially for emerging players operating in the solid biomass feedstock market.

**Product Development/ Innovation:** The solid biomass feedstock market is witnessing significant product development and innovation, driven by the growing demand for environmentally friendly, safe and sustainable products.

**Market Development:** Drax Group plc collaborated with Patch to elevate its carbon credit offerings. Patch's software assists participants in the voluntary carbon market in acquiring, trading, and overseeing credits. Through the Patch Radius software solution, Drax clients can effortlessly procure various portfolios of carbon credits, including those originating from BECCS by Drax. Aligned with Drax's aspirations in carbon removal, this partnership seeks to expedite the carbon market by simplifying carbon credit transactions for businesses of all scales striving to fulfill their climate objectives.

**Market Diversification:** Lignetics, Inc. launched the premium BBQ Wood Chips and BBQ Wood chunks. Premium BBQ Wood Chips and BBQ Wood Chunks are equally appealing to both, mainstream grillers and enthusiasts. Crafted from 100% natural premium hardwoods, these products are kiln-dried to deliver the desired flavors and aromas.

**Competitive Assessment:** In-depth assessment of market shares, growth strategies, and service offerings of leading players, like include Drax Group plc (Europe), Enviva Inc. (US), Arbaflame (Norway), REDAL (Lithuania), and Ecostrat Inc. (Canada), among others in the solid biomass feedstock market.

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\*Details on Business overview, Products/Solutions/Services offered, Recent developments, MnM view, Right to win, Strategic choices made, and Weaknesses and Competitive threats might not be captured in case of unlisted companies.

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