

Global Solid Biomass Feedstock Market Size study, by Source (Forest Waste, Animal Waste, Municipal Waste), by Type (Pellets, Briquettes, Others), by Application (Heat, Biofuels, Biomethane), by End User (Residential & Commercial, Industrial, Utilities) and Regional Forecasts 2022-2032

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Abstracts

Global Solid Biomass Feedstock Market is valued approximately at USD 25.02 Billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.3% over the forecast period 2024-2032. Solid biomass feedstock refers to organic materials in solid form derived from sources like agriculture, forestry, and organic waste. These materials can be converted into energy through processes such as combustion, gasification, or other conversion methods. Examples of solid biomass feedstock include wood chips, agricultural residues, and municipal solid waste. The stringent environmental regulations aimed at reducing carbon emissions and the increasing demand for biofuels across various countries are some of the key factors accelerating the growth of the solid biomass feedstock market.

The growing demand for biofuels, driven by stringent carbon emission regulations in various regions, is notably fueling market growth. According to the International Energy Agency (IEA), biofuel demand is expected to rise by 30% from 2023 to 2028, with total demand projected to reach 200 billion liters by 2028. This increase is primarily driven by emerging economies like Brazil, Indonesia, and India. Furthermore, the increasing awareness of the impact of carbon emissions on climate change is driving the use of biofuels. Countries such as India, the US, and others are promoting the use of biofuels through initiatives like blending mandates and financial support programs. For instance, India aims to achieve a 20% ethanol blending rate by 2025, contributing to the global

growth in ethanol demand. Similarly, Indonesia plans to mandate a 40% blending rate for biodiesel in 2022, fostering the expansion of biodiesel. As the demand for biofuels grows, the demand for solid biomass feedstock will also increase in the future.

However, complexities associated with the pretreatment of solid biomass, such as drying and densification, present a significant challenge to market growth. These processes, while necessary to improve the characteristics of biomass, involve high processing costs, process complexity, and low processing efficiency. For example, the drying process is energy-intensive and can lead to increased carbon emissions. Despite these challenges, the growing emphasis on waste management presents a significant opportunity for market expansion. The management of waste has become increasingly difficult due to rapid population growth, urbanization, and industrialization. Aligning waste management practices with the use of solid biomass feedstock not only addresses waste-related challenges but also promotes the generation of renewable energy and reduces environmental impact.

The key regions considered for the global Solid Biomass Feedstock Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is a dominating region in the Solid Biomass Feedstock Market in terms of revenue. The market growth in the region is being attributed to factors including high demand for accurate and convenient medicine, rising healthcare expenditures, and the desire for effective drug management among aging populations. The presence of major solid biomass feedstock providers and supportive government policies further bolster the market in this region. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period fueled by increasing energy demand, government initiatives to promote renewable energy, and abundant agricultural and forest residues. The region's large population and rapid industrialization create a strong market for sustainable energy sources, making solid biomass a viable and attractive option.

Major market player included in this report are:

Stora Enso (Finland)

Drax Group plc (UK)

Segezha Group (UK)

Enviva Inc. (US)

Lignetics, Inc. (US)

Rentech, Inc. (US)

LAND ENERGY LTD (UK)

Supreme Industries (India)

Wismar Pellets GmbH (Germany)

REDAL (Lithuania)

Shree Industries (India)

Mallard Creek Inc (US)

Ecostrat Inc. (Canada)

Arbaflame (Norway)

Subham Industries (India)

The detailed segments and sub-segment of the market are explained below:

By Source:

Forest Waste

Animal Waste

Municipal Waste

Agriculture Waste

By Type:

Pellets

Briquettes

Chips

Others

By Application:

Electricity

Heat

Biofuels

Biomethane

By End User:

Residential & Commercial

Industrial

Utilities

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

RoLA

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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