

Biomass Pellets Market By Source (Agricultural residue and waste, Forest and wood waste, Virgin lumber, Food waste, Energy crops, Others) , By Application (Heating, Power generation, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Biomass Pellets Market

The biomass pellets market was valued at \$9.5 billion in 2023 and is projected to reach \$16.0 billion by 2033, growing at a CAGR of 5.4% from 2024 to 2033.

A biomass pellet is a form of biofuel produced from organic matter or biomass, including wood waste and sawdust. Upon combustion, biomass pellets emit 80% less carbon dioxide than coal and contain low quantities of chlorine, sulfur, and nitrogen. The pellets are acquiring traction in recent times as they are clean-burning, economical, and sustainable fuels. They reduce pollutant emissions while boosting the thermal value of biomass waste. Moreover, the pellets do not contribute to global warming, as the liberation of greenhouse gases from them is significantly low. These pellets are rapidly replacing coal in power plants, heat boilers, and stoves.

Surge in the implementation of favorable policies and incentives by government, such as the Biomass Crop Assistance Program in the U.S., is a key driver of the biomass pellets market. In addition, advancements in technology have scaled up the production of pellets, offering them the benefit of cost-competitiveness and boosting their adoption. In recent times, the torrefaction of biomass pellets is trending in the power generation sector. The process involves heating biomass in a low-oxygen environment that alters

its chemical composition for improved fuel properties of the pellets.

However, volatility in the availability of feedstock leads to instability in the market. Moreover, the market faces stringent competition from traditional fuel sources during times of low oil & gas prices. Despite the efficiency challenges, key players in the market are striving to introduce ingenious technologies which promote the expansion of the market. For instance, in April 2022, California Pellet Mill Company in the U.S. unveiled Twin Track wood pelleting technology. This is an innovative approach which elevates the efficiency of wood pellet mills by boosting the mill throughput, lowering energy consumption, and assuring constant pellet quality. The mechanism of the technology involves moving the pellets with a single, energy-efficient, and lengthy push per die revolution.

Segment Review

The biomass pellets market is segmented into source, application, and region. On the basis of source, the market is divided into agricultural residue & waste, forest & wood waste, virgin lumber, food waste, energy crops, and others. As per application, it is classified into heating, power generation, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of source, the forest & wood waste segment is expected to lead throughout the forecast period.

As per application, the power generation segment is anticipated to be the highest shareholder during the forecast period.

Region wise, Asia-Pacific is predicted to be the highest revenue generator by 2033.

Competition Analysis

The major players operating in the global biomass pellets market include Enviva, Inc., Drax Group plc, Forest Energy Corporation, Energex Corporation, Buhler AG, JP Green Fuels, Ecostan Biofuel, Zilkha Biomass Fuels, Fram Fuels, and Sumitomo Corporation. These players have adopted various key developmental strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the market.

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SWOT Analysis

Key Market Segments

By Source

Agricultural residue and waste

Forest and wood waste

Virgin lumber

Food waste

Energy crops

Others

By Application

Heating

Power generation

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Thailand

Malaysia

Indonesia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

UAE

Argentina

Rest of LAMEA

Key Market Players

Enviva, Inc.

Drax Group plc

Forest Energy Corporation

Energex Corporation

Buhler AG

JP Green Fuels

Ecostan Biofuel

Zilkha Biomass Fuels

Fram Fuels

Sumitom%li%Corporation

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