

Global Material Handling Equipment Biomass Power Plant Market Insight, Growth, Industry Trends | Reports and Data

Increasing demand for renewable energy and government incentives for biomass power are primary drivers.

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/EINPresswire.com/ -- The material handling equipment market in biomass power plants includes systems such as cranes, industrial trucks, continuous

conveyors, racking, and storage solutions designed to handle biomass feedstocks—wood chips, pellets, agricultural residues, and municipal solid waste (MSW). These systems are central to efficient feedstock transport, storage, and processing, ensuring smooth operations and optimal combustion in biomass energy facilities.



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Market Size & Growth

In 2023, the market was valued at approximately USD 850–851 million, and it's projected to reach USD 1,419.5 million by 2030, growing at a CAGR of 6.6%

Other estimates place the CAGR at about 6.4% from 2024 to 2030, fueled by increasing biomass power adoption and emphasis on handling diverse feedstocks

A more conservative forecast by Technavio predicts incremental growth of USD 589 million between 2024 and 2028, corresponding to a CAGR of 4.5%.

Regional Insights

Europe leads the market, driven by stringent environmental regulations and ambitious renewable energy policies, particularly in Germany, the UK, and France

Asia-Pacific is forecast to exhibit the fastest growth through 2030, propelled by rapid

industrialization, rising energy demand, and government incentives in countries like China, India, and Japan

North America maintains a strong presence, supported by mature biomass projects, automation trends, and supportive policy frameworks

Key Growth Drivers

Renewable Energy Focus: Growing global emphasis on clean energy is increasing biomass power capacity, in turn boosting demand for feedstock handling systems

Technological Advancements: Adoption of automation, IoT and AI-enabled equipment allows real-time monitoring and predictive maintenance, enhancing reliability and reducing downtime

Feedstock Diversity: The need to manage various biomass types—wood chips, pellets, agricultural residues, and MSW—drives the development of more versatile and efficient handling solutions

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Market Segmentation Analysis

By Product Type

Continuous handling equipment (e.g., conveyors, bucket elevators) leads the market, accounting for about 39.8% of revenue in 2023

Industrial trucks (loaders, forklifts) are gaining traction, growing at a CAGR of 6.6% from 2024 to 2030

Other categories include racking & storage equipment, critical for efficient biomass storage and retrieval

By Application

Wood chip handling remains the dominant segment at around 34.9% share in 2023

Pellet handling is seeing notable growth with a CAGR of about 7.0% over 2024–2030

Agricultural residue handling is expanding steadily as crop residues become increasingly used as feedstock

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Competitive Landscape

Key market players include Amandus Kahl, Andritz AG, Astec Industries, Babcock & Wilcox Enterprises, Dust Solutions, Evoqua Water Technologies, General Kinematics, MAX Automation, RUD Ketten, Schenck Process, Terex, and ZE ENERGY, among others

Market Trends & Opportunities

Embedding smart technologies—AI, IoT, sensors—in handling systems is enhancing feedstock flow management, predictive maintenance, and operational uptime

Government support for biomass generation, including subsidies and policy initiatives, is accelerating demand for modular and cost-effective feeding systems—especially in Asia-Pacific's emerging markets

Regional Analysis

Asia-Pacific: Largest and fastest-growing region, driven by manufacturing, exports, and infrastructure development.

North America & Europe: Focus on regulatory compliance, automation, and sustainable packaging.

Latin America & Middle East/Africa: Emerging demand as industrial sectors and trade expand.

Key Benefits of the Market Report

Comprehensive analysis of market drivers, restraints, and opportunities

Strategic planning support with detailed forecasts and segmentation

Regional insights for targeted business development

Competitive profiling of major players and their latest activities

Assessment of regulatory and technological trends shaping the market

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