

Briquettes Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Saw Dust Briquettes, Agro Waste Briquettes, Wood Briquettes & Others), By Application (Power Generation, Thermal Energy & Others), By Region and Competition, 2020-2030F

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Abstracts

The global briquettes market was valued at USD 874.65 million in 2024 and is projected to reach USD 1,342.60 million by 2030, reflecting a compound annual growth rate (CAGR) of 7.40% during the forecast period. Briquettes are compacted blocks made from coal dust or other combustible materials, primarily used as fuel. These are commonly produced from waste products such as sawdust, agricultural residues, or peat, and serve as an effective alternative to charcoal or coal. Briquettes offer a longer burn time, higher heat output, and more consistent temperature, making them an environmentally friendly and cost-efficient solution for both heating and cooking applications. The briquette market includes the production, distribution, and sale of briquettes and has experienced significant growth due to the rising demand for renewable, cost-effective energy sources. Key drivers of this growth include increasing environmental awareness, governmental support for biofuel usage, and the abundant availability of raw materials. Additionally, briquettes are versatile, serving a wide range of applications from residential heating to industrial processes, enhancing their market attractiveness.

The briquette market is geographically diverse, with key players spread across multiple regions, each offering unique advantages in terms of raw materials and production methods. Moreover, the challenges associated with conventional fuels—such as air pollution and greenhouse gas emissions—are leading to a shift towards biomass

briquettes as an effective and sustainable alternative. Biomass briquettes, made from agricultural and forestry waste, present a renewable and eco-friendly energy option, helping urban areas reduce their carbon footprint and improve energy security. According to the Department of Energy, the use of briquettes in the building sector in 2022 was split between cooking (47.42%) and heating (52.58%). However, briquette consumption in this sector declined from 316.15 metric tons in 2014 to 132.39 metric tons in 2022. Fuelwood consumption, on the other hand, was mainly for cooking (36.2%), followed by other uses such as rituals, hot stone baths, and arts and crafts (41.3%), and heating (22.5%). The institutional and commercial sectors together consumed 42,768.02 metric tons of fuelwood.

Key Market Drivers:

1. Rising Demand for Renewable Energy Sources

The global shift towards renewable energy is expected to significantly drive briquette market growth. Briquettes, as a sustainable energy source, are made from agricultural residues, organic materials, or industrial waste. Their use reduces dependency on fossil fuels, contributing to the global move toward renewable energy solutions. Briquettes offer higher energy efficiency and are far less polluting compared to traditional fuels. Additionally, their production helps with waste management by utilizing materials that would otherwise be discarded. As environmental concerns grow, industries, governments, and households are increasingly seeking cleaner and more sustainable energy options, boosting the demand for briquettes. In regions lacking access to other renewable energy sources, such as wind or solar, briquettes present an affordable and viable alternative.

2. Co-Firing Biomass Briquettes with Coal

The growing trend of co-firing biomass briquettes with coal in power plants is expected to generate significant market opportunities. This practice allows industries and countries to reduce carbon emissions and meet climate targets. Integrating briquettes into existing coal-fired power plants facilitates a transition to sustainable energy practices without the need for extensive infrastructure changes, providing an attractive, cost-effective solution for energy providers.

According to the Bhutan Energy Data Directory, 2022 saw notable coal sector trends, with sub-bituminous coal leading production at 133,501.10 metric tons (MT). Imports of coke/semi-coke derived from coal totaled 108,998.06 MT, followed by sub-bituminous

coal at 39,389 MT and other types of coal at 14,979.08 MT. Exports of bituminous coal amounted to 24.16 MT.

Key Market Challenges:

1. Fluctuating Raw Material Prices

The briquette market faces challenges due to fluctuating raw material prices. Briquettes are primarily made from agricultural residues or sawdust, which are susceptible to price volatility. When the cost of these materials increases, so does the production cost of briquettes, leading to higher prices in the market. This price rise may result in consumers, particularly in price-sensitive regions, seeking more affordable alternatives, which could reduce global demand for briquettes. Additionally, higher production costs may discourage new market entrants, limiting the availability of briquettes and further dampening demand.

Key Market Trends:

1. Advancements in Briquette Production Techniques

Recent advancements in briquette production methods, particularly in densification technology, have improved the quality and efficiency of briquettes. These high-density briquettes offer longer burn times and more consistent heat, making them suitable for a wide range of applications, from domestic cooking to industrial processes. Furthermore, innovations in production have expanded the range of usable raw materials, including agricultural residues and waste, making briquette production more sustainable and cost-effective. This innovation not only reduces production costs but also contributes to waste management, enhancing the environmental appeal of briquettes. As nations strive to meet energy needs while limiting carbon emissions, the demand for these carbon-neutral briquettes is expected to grow significantly.

Key Market Players:

Biomass Secure Power Inc.

Drax Group plc

Enviva Inc.

Geetha Biotech Ltd.

German Pellets GmbH

Lignetics Group

Om Greentech Industries

Pacific BioEnergy Corp.

Pfeifer Group

Pinnacle Renewable Energy Inc.

Report Scope: This report segments the global briquettes market as follows, with detailed analysis of industry trends:

Briquettes Market by Type:

Sawdust Briquettes

Agro Waste Briquettes

Wood Briquettes

Others

Briquettes Market by Application:

Power Generation

Thermal Energy

Others

Briquettes Market by Region:

North America (U.S., Canada, Mexico)

Europe (France, U.K., Italy, Germany, Spain)

Asia-Pacific (China, India, Japan, Australia, South Korea)

South America (Brazil, Argentina, Colombia)

Middle East & Africa (South Africa, Saudi Arabia, UAE)

Competitive Landscape and Company Profiles:

This section provides an in-depth analysis of the leading companies operating in the global briquettes market.

Available Customizations:

TechSci Research offers customizations to the report based on specific company needs, including the following:

Detailed analysis and profiling of additional market players (up to five).

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