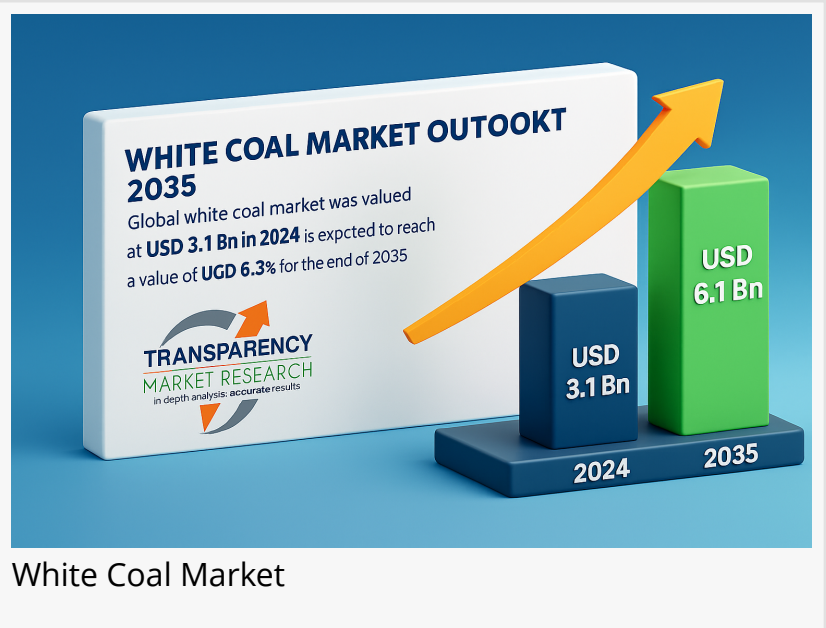


Global White Coal Market to Reach USD 6.1 Bn by 2035, Driven by Rising Demand for Eco-Friendly Energy | TMR

This, combined with increased awareness of green energy benefits, is creating a favorable growth opportunity for the market.

WILMINGTON, DE, UNITED STATES, October 8, 2025 /EINPresswire.com/ -- The global [white coal market](#) was valued at USD 3.1 billion in 2024 and is expected to reach USD 6.1 billion by the end of 2035, expanding at a CAGR of 6.3% from 2025 to 2035. The market growth is driven by the rising demand for renewable and eco-friendly energy sources, coupled with increasing efforts to reduce carbon emissions and dependence on fossil fuels. White coal, produced from agricultural waste, is gaining traction as a sustainable alternative for industrial and domestic energy applications.



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White Coal Market Outlook 2035: From USD 3.1 Bn in 2024 to USD 6.1 Bn by 2035”
Transparency Market Research Inc.

The white coal industry is gaining momentum as companies and governments across the globe are increasingly focusing on renewable and clean sources of energy. White coal, produced by pressurizing farm waste such as husk, sawdust, and crop residue, is soon emerging as a cleaner option to conventional fossil fuels such as coal and firewood. Its major advantage is that it is carbon-neutral, low-cost, and readily available, and therefore can

be utilized in power plants, industrial boilers, and cement kilns.

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The white coal market is defined as the industry producing and utilizing biomass briquettes derived from agricultural residues such as bagasse, husk, sawdust, and other agricultural waste. Biomass briquettes are an eco-friendly replacement for conventional fossil fuels such as firewood, coal, and lignite. Biomass briquettes can provide a carbon-neutral source of energy.

Market Drivers and Challenges

Market Drivers

The primary forces driving the white coal market are rooted in environmental mandates and economic incentives:

Growing Carbon Emission Concerns and Climate Change Mitigation: The imperative to meet ambitious carbon reduction goals, such as those set by the Paris Agreement, is pushing governments and corporations toward lower-emission fuels like white coal.

Government Initiatives and Renewable Energy Policies: Favorable government policies, including subsidies, tax benefits, and regulations supporting biofuels and biomass utilization, are instrumental in accelerating market growth.

Rising Industrial Demand for Cost-Effective Energy Alternatives: Industries are increasingly seeking reliable, affordable, and cleaner fuel to manage energy costs and comply with environmental standards. White coal offers comparable combustion characteristics to black coal at a competitive price.

Abundance of Agricultural Waste and Biomass: In large agricultural economies, the ready availability of raw materials like rice husks, groundnut shells, sawdust, and sugarcane bagasse for briquetting lowers feedstock costs and boosts production.

Energy Security Needs: Producing white coal from indigenous biomass resources enhances energy self-reliance and reduces dependency on volatile fossil fuel imports.

Market Challenges

Despite its potential, the market faces several hurdles:

High Capital Investment: The initial capital required for setting up large-scale white coal production plants, including modern briquetting machinery and drying systems, can be a significant barrier for new players.

Logistics and Infrastructure: Challenges in managing the collection, storage, and transportation of bulky, low-density biomass from dispersed agricultural areas to centralized production facilities can affect the cost and efficiency of the supply chain.

Competition from Other Renewable Sources: The market faces stiff competition from rapidly advancing and highly scalable renewable energy technologies like solar and wind power.

Complex Regulatory Environment: Navigating varied and sometimes stringent government regulations on biomass energy production, particularly concerning environmental permits and raw material sourcing, can be complex.

Market Trends

Key trends are shaping the future development of the white coal sector:

Technological Advancements in Briquetting: Innovations in production technology, such as automated briquetting plants and moisture-free drying systems, are improving product quality, increasing efficiency, and making large-scale production more cost-effective.

Focus on Supply-Side Bio-Coal Solutions: Industry majors are investing in innovative supply-side solutions to secure consistent feedstock. This includes developing robust supply chains and forming alliances with end-use sectors for co-firing agreements.

Corporate Sustainability Goals: A rise in corporate responsibility and the adoption of carbon-neutral targets are accelerating the adoption of white coal in industrial applications like cement, power, and textile manufacturing.

Diversification of Product Types: Beyond standard briquettes, market players are exploring and refining other biomass-derived fuels, such as pellets and torrefied biomass (bio-coal), to cater to different industrial and household combustion needs.

Market Segmentation

The white coal market can be broadly segmented based on product type, production process, application, and end-user.

Segmentation Category

Key Segments

Leading Segment

By Type

Briquettes (Cylindrical, RUF, Pini Kay), Pellets, Lump

Briquettes (Dominating due to versatility and cost-effectiveness, expected to hold a large share of the market)

By Process

Pyrolysis (Slow, Fast), Hydrothermal Carbonization, Other Types (Gasification, Torrefaction, Briquetting)

Pyrolysis / Briquetting

By Application (Industry Vertical)

Power Generation, Ceramic, Chemical, Food and Beverage, Textile, Heating (Residential/Commercial), Cement Kilns

Power Generation (Leading application due to focus on reducing emissions in coal-fired plants) / Industrial (Overall dominance)

By End-User

Industrial, Residential, Commercial

Industrial / Residential (A significant share of the market)

Note: The user-requested categories "By service type" and "By sourcing type" are not distinct market segments for this product, which is a solid fuel (not a service) and is generally sourced from biomass waste.

Regional Analysis

The global white coal market's growth is geographically diverse, with distinct regional dynamics:

Asia-Pacific (APAC): Predicted to exhibit the fastest CAGR growth and hold a dominant share of the market, driven by rapid industrialization, strong economic development in countries like China and India, and abundant agricultural feedstock. Supportive policies and strong domestic demand for affordable fuel contribute significantly.

North America: Estimated to hold a significant market share, bolstered by domestic demand, the presence of large-scale transport infrastructure, and policy support for transitioning to cleaner fuels.

Europe: Shows substantial demand, primarily led by countries like Germany and Sweden, which have stringent environmental regulations and ambitious renewable energy targets, driving the

import of bio-coal.

Future Outlook

The future of the White Coal Market is highly positive, driven by the global imperative for decarbonization. The industry is anticipated to see increased investment in technological advancements in biomass conversion and briquetting, leading to higher-quality, standardized products. The increasing acceptance of white coal as a "transition fuel" that can be co-fired with traditional coal in existing infrastructure will secure its role in the near to mid-term energy mix. Strategic partnerships across the value chain, from raw material providers to end-user industries, will be crucial for sustained growth.

Key Market Study Points

Feature

Insight

Primary Market Value (2024-2035)

Projected growth from \$3.1 Bn to \$6.1 Bn (6.3% CAGR).

Key Growth Driver

Growing carbon emission concerns and government renewable energy policies.

Leading Product Type

Briquettes dominate due to high energy density and ease of use.

Leading Application

Power generation and the broader industrial sector.

Fastest Growing Region

Asia-Pacific (led by China and India).

Major Challenge

High capital investment for new production facilities.

Competitive Landscape and Recent Developments

The competitive landscape of the White Coal Market features both established energy firms and a rising number of specialized biomass companies. Key players are focused on expanding production capacity and securing robust supply chains.

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Prominent Companies:

Major companies in the white coal market include:

KKR Bio Fuels
Nexgen Energia
Vow ASA
Vega Biofuels Inc.
Airex Energy Inc.
Drax Group plc (actively involved in biomass co-firing)

Recent Developments:

Focus on Torrefied Biomass: Companies like Airex Energy have launched new lines of torrefied biomass products (a higher-grade bio-coal) in early 2024, targeting industries that are actively transitioning away from fossil fuels.

Supply Chain Integration: There's an industry-wide focus on building production plants close to biomass sources and forming alliances with end-use sectors to create more resilient and cost-efficient stubble-to-fuel value chains.

Increased Corporate Adoption: Corporations are setting ambitious carbon neutrality goals, which has led to multinational companies in manufacturing and power generation incorporating white coal to replace or supplement fossil fuels and reduce their overall emissions. For example, SSGE Bio-Energy announced plans to supply bio-coal, sourced from waste like rice husks, to power plants.

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