

# Global Biomass Fuel (PKS) Market Research Report 2026(Status and Outlook)

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## Abstracts

PKS is a byproduct of the palm oil industry and can be used as a fuel for biomass power plants. It has the characteristics of high calorific value, carbon neutrality, and easy storage. In recent years, it has attracted much attention as a biomass fuel. The utilization of palm kernel shells not only reduces the cost of waste treatment, but also creates new economic value by converting it into biomass fuel, promoting the development of related industries. With the growing global demand for renewable energy, PKS as a waste material reuse is in line with the concept of sustainable development. It not only reduces waste emissions during palm oil production and reduces environmental pollution, but also provides a new resource source for the energy sector. PKS is abundantly available; however, this report exclusively focuses on the commercially utilized portion of PKS. The unused or discarded portions, which do not hold commercial value, are not included in the statistical analysis. Manufacturers in the industry make Biomass Fuel (PKS) through the purchase, screening, drying and processing of palm kernel shells. Biomass Fuel (PKS) can be exported to Japan, South Korea, Europe and other places. Leading companies like Iwatani Corporation, Global Iwatani Corporation, NISSIN BIO ENERGY, and DSNG (PT Dharma Satya Nusantara Tbk) dominate the industry, with the top three players accounting for 12.42% of global revenue in 2023. However, the market remains highly fragmented due to abundant supply in production hubs like Indonesia and Malaysia, where a significant portion of PKS is consumed locally before surplus is exported. This fragmentation is further compounded by the presence of numerous distributors and exporters who collect PKS locally and ship it to demand-driven markets such as Japan, South Korea, Europe, and the Americas. The role of distributors and exporters is pivotal in bridging supply and demand. Companies such as Gombella Integrated Services Limited, ARGYA ENERGY, Provident Biofuels, Arkan Group, and PT UNIVERSAL PALM INDONESIA (UNIPALM) are critical in facilitating global trade. Meanwhile, large-scale downstream users, particularly in Japan and Europe, have

established procurement offices in Indonesia and Malaysia to ensure stable supply chains and consistent quality. The market is increasingly shaped by the rising importance of Certified PKS, driven by governmental policies promoting sustainable practices. In 2023, Certified PKS constituted 33.59% of the market, but its share is expected to reach 45.75% by 2030. This rapid growth reflects stringent certification requirements in key importing countries to ensure sustainability and traceability, aligning with global environmental goals. Japan leads as the largest importer of PKS, fueled by robust policies supporting renewable energy, the need for carbon-neutral solutions, and its geographical proximity to Southeast Asia. Japanese utilities are major consumers, leveraging PKS as a sustainable and cost-effective alternative for power generation. The compatibility of PKS with Japan's energy policies and its efficient transportation routes from Southeast Asia make it a cornerstone of the country's renewable energy strategy. The PKS market's trajectory is bolstered by several factors, including government incentives, rising demand for biomass-based power generation, its high calorific value, and environmental advantages. As more countries aim to decarbonize their energy sectors, PKS offers a renewable, efficient, and scalable solution.

The global Biomass Fuel (PKS) market size was estimated at USD 1626.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 9.10% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Biomass Fuel (PKS) market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Biomass Fuel (PKS) market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants,

investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Biomass Fuel (PKS) market.

## **Global Biomass Fuel (PKS) Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Iwatani Corporation  
NISSIN BIO ENERGY  
DSNG (PT Dharma Satya Nusantara Tbk)  
BIO ENECO  
Palmline Bioenergy

### **Market Segmentation (by Type)**

Non-Certified PKS  
Certified PKS

### **Market Segmentation (by Application)**

Residential  
Business  
Industry

### **Geographic Segmentation**

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Biomass Fuel (PKS) Market

Overview of the regional outlook of the Biomass Fuel (PKS) Market:

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

### **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Biomass Fuel (PKS) Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Biomass Fuel (PKS), their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change  
This enables you to anticipate market changes to remain ahead of your competitors  
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

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