

Global Biomass Fuel (PKS) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Biomass Fuel (PKS) market size was valued at US\$ 1583 million in 2023 and is forecast to a readjusted size of USD 2784 million by 2030 with a CAGR of 8.9% during review period.

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.

This report is a detailed and comprehensive analysis for global Biomass Fuel (PKS) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global Biomass Fuel (PKS) market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2019-2030

Global Biomass Fuel (PKS) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices

(US\$/Ton), 2019-2030

Global Biomass Fuel (PKS) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2019-2030

Global Biomass Fuel (PKS) market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Biomass Fuel (PKS)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Biomass Fuel (PKS) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Iwatani Corporation, NISSIN BIO ENERGY, DSNG (PT Dharma Satya Nusantara Tbk), BIO ENECO, Palmline Bioenergy, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Biomass Fuel (PKS) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Non-Certified PKS
- Certified PKS

Market segment by Application

- Residential
- Business
- Industry

Major players covered

- Iwatani Corporation

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Biomass Fuel (PKS) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Biomass Fuel (PKS), with price, sales quantity, revenue, and global market share of Biomass Fuel (PKS) from 2019 to 2024.

Chapter 3, the Biomass Fuel (PKS) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Biomass Fuel (PKS) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and Biomass Fuel (PKS) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces

analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Biomass Fuel (PKS).

Chapter 14 and 15, to describe Biomass Fuel (PKS) sales channel, distributors, customers, research findings and conclusion.

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