

Global Biomass FT-SPK Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Biomass FT-SPK market size was valued at US\$ 8.23 million in 2025 and is forecast to a readjusted size of US\$ 137 million by 2032 with a CAGR of 43.9% during review period.

Biomass Fischer-Tropsch (FT) synthetic kerosene is produced from renewable carbon sources such as forestry residues, agricultural straw, municipal solid waste biomass components, or biogas. These feedstocks are converted into syngas through gasification or reforming, followed by Fischer-Tropsch synthesis, hydroisomerization, and fractionation to yield the aviation kerosene fraction. The product primarily serves as a sustainable aviation fuel (SAF) blending component, entering the aviation fuel system via ASTM D7566 FT-SPK or FT-SPK/A pathways, typically blended with conventional jet fuel. The overall gross margin is approximately 25%.

Biomass FT-SPK is still in early-stage commercialization, with physical throughput far below HEFA-type SAF. Current volumes are mainly from demonstration batches, certified fuels, limited project deliveries, and early releases under long-term procurement contracts. The value of this pathway lies not in short-term scale but in its ability to utilize non-oil feedstocks such as forestry and agricultural residues, municipal solid waste, and biogas, helping mitigate limitations on HEFA feedstocks like waste oils and animal fats.

Demand is driven by airline emission reduction commitments, CORSIA compliance, SAF blending mandates in the EU and UK, and airlines' long-term supply agreements for non-HEFA routes. Projects by DG Fuels, USA BioEnergy, Velocys/Altalto, Red Rock Biofuels, and Toyo lay the foundation for scaling, though production pace is constrained

by gasification, syngas purification, FT reactors, hydro-upgrading, and project financing.

Medium-term growth will depend on whether the first commercial projects, around 2028, achieve stable production. If U.S. and European policy credits, low-carbon fuel standards, and long-term airline purchase agreements remain effective, this product category could transition from demonstration-scale to a specialized segment within the multi-billion-dollar SAF market. Short-term costs remain higher than HEFA and fossil jet fuel, and gross margins are highly sensitive to subsidies, carbon intensity scores, feedstock sourcing radius, and plant operational rates.

This report is a detailed and comprehensive analysis for global Biomass FT-SPK 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 2025, are provided.

Key Features:

Global Biomass FT-SPK market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Biomass FT-SPK market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Biomass FT-SPK market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Biomass FT-SPK market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

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 FT-SPK

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 FT-SPK 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 DG Fuels, USA BioEnergy, Red Rock Biofuels, Velocys, Altalto, Toyo Engineering, Sasol ecoFT, Zaffra, Syzygy Plasmonics, Johnson Matthey, etc.

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

Market Segmentation

Biomass FT-SPK market is split by Type and by Application. For the period 2021-2032, 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

Woody Biomass-Based FT-SPK

Agricultural Residue-Based FT-SPK

Municipal Solid Waste-Based FT-SPK

Biogas/Biomethane-Based FT-SPK

Mixed Biogenic Feedstock FT-SPK

Market segment by Certification Pathway

ASTM D7566 Annex A1 FT-SPK

ASTM D7566 Annex A4 FT-SPK/A

Co-Processed FT Biocrude Kerosene

Non-Certified Demonstration FT Kerosene

Market segment by Delivery Form

Neat FT-SPK Blendstock

Pre-Blended SAF with FT-SPK

FT Synthetic Crude for Upgrading

FT Kerosene Cut for Refinery Use

Market segment by Process Route

Direct Biomass Gasification-to-FT

Waste Gasification-to-FT

Biogas Reforming-to-FT

Biomass Plus Hydrogen Bio-FT

FT-SPK with Aromatics Integration

Market segment by Application

SAF Blending for Commercial Aviation

Airport Fuel Supply and Logistics

Airline Emission Reduction Procurement

Military and Government Aviation Fuel

Engine and Fuel Certification Testing

Refinery Renewable Fuel Upgrading

Major players covered

DG Fuels

USA BioEnergy

Red Rock Biofuels

Velocys

Altalto

Toyo Engineering

Sasol ecoFT

Zaffra

Syzygy Plasmonics

Johnson Matthey

BP

NextChem

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 FT-SPK product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Biomass FT-SPK, with price, sales quantity, revenue, and global market share of Biomass FT-SPK from 2021 to 2026.

Chapter 3, the Biomass FT-SPK competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Biomass FT-SPK breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Biomass FT-SPK market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 FT-SPK.

Chapter 14 and 15, to describe Biomass FT-SPK sales channel, distributors, customers, research findings and conclusion.

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