

Global Biomass FT-SPK Market Growth 2026-2032

<https://marketpublishers.com/r/GA9E90CD6A3CEN.html>

Date: July 2026

Pages: 123

Price: US\$ 3,660.00 (Single User License)

ID: GA9E90CD6A3CEN

Abstracts

The global Biomass FT-SPK market size is predicted to grow from US\$ 7.83 million in 2025 to US\$ 146 million in 2032; it is expected to grow at a CAGR of 46.7% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "Biomass FT-SPK Industry Forecast" looks at past sales and reviews total world Biomass FT-SPK sales in 2025, providing a comprehensive analysis by region and market sector of projected Biomass FT-SPK sales for 2026 through 2032. With Biomass FT-SPK sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Biomass FT-SPK industry.

This Insight Report provides a comprehensive analysis of the global Biomass FT-SPK landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Biomass FT-SPK portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Biomass FT-SPK market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Biomass FT-SPK and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Biomass FT-SPK.

This report presents a comprehensive overview, market shares, and growth opportunities of Biomass FT-SPK market by product type, application, key manufacturers and key regions and countries.

Segmentation 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

Segmentation 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

Segmentation by Delivery Form:

Neat FT-SPK Blendstock

Pre-Blended SAF with FT-SPK

FT Synthetic Crude for Upgrading

FT Kerosene Cut for Refinery Use

Segmentation 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

Segmentation 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

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

DG Fuels

USA BioEnergy

Red Rock Biofuels

Velocys

Altalto

Toyo Engineering

Sasol ecoFT

Zaffra

Syzygy Plasmonics

Johnson Matthey

BP

NextChem

Key Questions Addressed in this Report

What is the 10-year outlook for the global Biomass FT-SPK market?

What factors are driving Biomass FT-SPK market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Biomass FT-SPK market opportunities vary by end market size?

How does Biomass FT-SPK break out by Type, by Application?

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