

# Global Aviation Biofuels Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Aviation Biofuels market size is expected to reach \$ 19509 million by 2032, rising at a market growth of 12.2% CAGR during the forecast period (2026-2032). Global aviation biofuel sales reached 4.25 million tons in 2025, with an average price of US\$1,935 per ton.

Aviation biofuel refers to aviation turbine fuel produced from renewable biomass such as animal and vegetable oils, agricultural and forestry waste, or algae through processes such as hydrogenation, Fischer-Tropsch synthesis, or alcohol-to-oil (ATJ). Its chemical composition, energy density, and freezing point are highly consistent with traditional Jet A-1 jet fuel, and it can be used directly or blended at a ratio of 1%-50% in existing engines without requiring modifications to the aircraft fuel system.

The raw materials for aviation biofuels follow a 'three oils and one grass' pattern: oils (palm oil, rapeseed oil, waste cooking oil, and animal fats) remain the mainstream. Europe and America primarily use vegetable oils, while China considers the over ten million tons of 'gutter oil' produced annually as a core resource to 'not compete with human food production.' However, this resource is complex in terms of impurities and fluctuates significantly from batch to batch, requiring additional degumming and deacidification processes. Agricultural and forestry waste (straw, sawdust) and microalgae are considered second/third-generation raw materials. They are widely available and do not occupy arable land, but the lignocellulose requires expensive pretreatment. Although microalgae have an oil content as high as 70% of cell dry weight, large-scale cultivation and harvesting are still in the demonstration stage. In terms of cost structure, raw material costs account for the largest share, reaching 65%-85%. Palm oil and rapeseed oil prices fluctuate with grain and oil prices, while gutter oil, despite its lower price, requires an additional purification process, resulting in an overall factory price only 10%-15% lower than vegetable oils. The remaining 15%-35% consists of hydrogen, catalysts, electricity, and depreciation: the oil-based

hydrogenation route requires approximately 3.5-400 Nm<sup>3</sup> of hydrogen per ton of SAF, with the price of green hydrogen directly determining the upper limit of the cost; the Fischer-Tropsch synthesis route requires multiple gasification and upgrading steps, resulting in even higher capital depreciation. Overall, the market price of SAF remains 2-4 times that of petrochemical jet fuel, and its commercial viability depends on policies such as mandatory blending in the EU and tax credits in the US.

This report studies the global Aviation Biofuels production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aviation Biofuels and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Aviation Biofuels that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Aviation Biofuels total production and demand, 2021-2032, (K MT)

Global Aviation Biofuels total production value, 2021-2032, (USD Million)

Global Aviation Biofuels production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Aviation Biofuels consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Aviation Biofuels domestic production, consumption, key domestic manufacturers and share

Global Aviation Biofuels production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Aviation Biofuels production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Aviation Biofuels production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Aviation Biofuels market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Neste, World Energy, TotalEnergies, Honeywell, SkyNRG, LanzaJet, Swedish Biofuels AB, Eni, Virent, Twelve, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Aviation Biofuels market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) by

manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Aviation Biofuels Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aviation Biofuels Market, Segmentation by Type:

Hydrogenated Vegetable Oil (HVO)

Fischer-Tropsch (FT)

Others

Global Aviation Biofuels Market, Segmentation by Raw Materials:

Animal and Vegetable Oils

Agricultural and Forestry Waste

Algae

## Global Aviation Biofuels Market, Segmentation by Product Forms:

Blended Fuels

Pure Biofuels

## Global Aviation Biofuels Market, Segmentation by Application:

Military Aviation

Commercial Aviation

## Companies Profiled:

Neste

World Energy

TotalEnergies

Honeywell

SkyNRG

LanzaJet

Swedish Biofuels AB

Eni

Virent

Twelve

P2X Europe

Zero Petroleum

Infinium

Red Rock Biofuels

GEVO

ADM

**Key Questions Answered:**

1. How big is the global Aviation Biofuels market?
2. What is the demand of the global Aviation Biofuels market?
3. What is the year over year growth of the global Aviation Biofuels market?
4. What is the production and production value of the global Aviation Biofuels market?
5. Who are the key producers in the global Aviation Biofuels market?
6. What are the growth factors driving the market demand?

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