

# Global Ethanol-based Aviation Fuel (ETJ) Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Ethanol-based Aviation Fuel (ETJ) market size was valued at US\$ 57.62 million in 2025 and is forecast to a readjusted size of US\$ 267 million by 2032 with a CAGR of 24.4% during review period.

Ethanol-based aviation fuel (ETJ) is a sustainable aviation fuel (SAF) that meets aviation fuel standards, produced from bioethanol, cellulosic ethanol, waste ethanol, or low-carbon ethanol through processes such as dehydration, oligomerization, and hydrogenation. ETJ fuel can be directly blended with conventional Jet A or Jet A-1 aviation kerosene without requiring modifications to existing aircraft engines and airport refueling infrastructure. Compared to traditional fossil aviation kerosene, ETJ fuel typically achieves greenhouse gas emission reductions of 50%?80% or more over its entire lifecycle, making it a key technological route for the international air transport industry to achieve net-zero emissions.

The upstream of the ETJ industry chain mainly includes the supply of raw materials such as corn, sugarcane, lignocellulosic acid, biomass waste, and industrial tail gas fermentation ethanol, as well as ethanol production enterprises; the midstream is the ETJ fuel manufacturing stage, including ethanol pretreatment, ATJ conversion, fuel refining, and certification; and the downstream includes airlines, airport fuel suppliers, military aviation departments, and carbon trading markets. With the gradual implementation of mandatory blending policies for SAF globally, ETJ is becoming the most important large-scale supplementary pathway besides HEFA (Heated, Unsaturated, and Fertilized) fuels, with the advantage of leveraging the existing massive global ethanol industry infrastructure to achieve rapid capacity expansion. ETJ is considered one of the fastest-growing SAF routes over the next decade. Currently, the

global SAF market remains undersupplied, with SAF production accounting for only about 0.7% of global aviation fuel consumption in 2025, far below the aviation industry's decarbonization targets. Due to limited waste oil resources, the HEFA route faces raw material bottlenecks in the future, while ETJ can expand based on the global annual ethanol production capacity of over 100 billion liters. Therefore, it is widely regarded by the International Air Transport Association (IATA), airlines, and fuel producers as a key development direction for the next stage. Driven by policies such as the US IRA Act and the EU's ReFuelEU Aviation, investment in ETJ projects has accelerated significantly, and it is expected to become the second most popular SAF production route after HEFA in the future.

This report is a detailed and comprehensive analysis for global Ethanol-based Aviation Fuel (ETJ) market. Both quantitative and qualitative analyses are presented by company, 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 Ethanol-based Aviation Fuel (ETJ) market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Ethanol-based Aviation Fuel (ETJ) market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Ethanol-based Aviation Fuel (ETJ) market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Ethanol-based Aviation Fuel (ETJ) market shares of main players, in revenue (\$ Million), 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 Ethanol-based Aviation Fuel (ETJ)

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 Ethanol-based Aviation Fuel (ETJ) market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LanzaJet, etc.

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

#### Market segmentation

Ethanol-based Aviation Fuel (ETJ) 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. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

Corn Ethanol ETJ

Sugarcane Ethanol ETJ

Cellulose Ethanol ETJ

Industrial Waste Gas Ethanol ETJ

Waste Ethanol ETJ

#### Market segment by Carbon Sources

First-Generation Bioethanol ETJ

Second-Generation Cellulose ETJ

Waste Recycled Carbon ETJ

Carbon Capture Ethanol ETJ

Market segment by Application

Military Aircraft

Civil Aircraft

Commercial Aircraft

Market segment by players, this report covers

LanzaJet

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

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

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

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Ethanol-based Aviation Fuel (ETJ) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Ethanol-based Aviation Fuel (ETJ), with revenue, gross margin, and global market share of Ethanol-based Aviation Fuel (ETJ) from 2021

to 2026.

Chapter 3, the Ethanol-based Aviation Fuel (ETJ) competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Ethanol-based Aviation Fuel (ETJ) market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Ethanol-based Aviation Fuel (ETJ).

Chapter 13, to describe Ethanol-based Aviation Fuel (ETJ) research findings and conclusion.

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