

Europe Sustainable Aviation Fuel Market - Analysis and Forecast, 2023-2033

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Abstracts

This report will be delivered in 3-5 working days.

Introduction to Europe Sustainable Aviation Fuel Market

The Europe sustainable aviation fuel market was valued at \$96.9 million in 2022 and is anticipated to reach \$18,238.9 million by 2033, witnessing a CAGR of 58.03% during the forecast period 2023-2033. Due to the pressing need to lower greenhouse gas emissions and lessen the impact of aviation on climate change, the market for sustainable aviation fuel (SAF) has become an important and quickly expanding segment within the aviation industry. SAF, commonly referred to as biojet fuel, is produced using renewable energy sources, algae, and agricultural waste as sustainable feedstocks. It provides a competitive substitute for traditional jet fuel by cutting emissions of carbon dioxide and other pollutants to a great extent. Governments, airlines, and other industry players are putting more focus and capital into the SAF market as they work to meet their sustainability targets. The market for sustainable aviation fuel has enormous potential for innovation, teamwork, and good environmental impact. It has the ability to transform aviation and contribute to a more environmentally friendly future.

Market Introduction

The concept of sustainable aviation fuel, or SAF, has a lengthy history that began in the early 2000s as environmental and climate change awareness began to grow. Scholars and business experts agreed that the need for alternative fuels was necessary in order to reduce greenhouse gas emissions and reliance on fossil fuels. Initially, the emphasis was on biofuels derived from plants like soybeans and sugarcane. In 2008, the first

commercial aircraft using a blend of normal jet fuel and biofuel was launched. Since then, there have been significant advancements in the development and adoption of SAF, including upgrades to the certification standards, the refining processes, and the range of feedstocks utilized.

Worldwide interest in and use of sustainable aviation fuel, or SAF, is now rising dramatically. Concerns over climate change and the aviation industry's detrimental environmental effects are growing, making cleaner alternatives to traditional jet fuels desperately needed. Thus, SAF, which is made from sustainable feedstocks like biomass, leftover cooking oil, or hydrogen, has offered a practical solution. Modern technology and collaborations are propelling the industry forward by increasing SAF manufacturing capacity, streamlining the supply chain, and bringing down costs for businesses. The resolution of difficulties pertaining to scalability, feedstock availability, and regulatory frameworks is imperative in order to promote the adoption of SAF and provide a more sustainable future for aviation.

Market Segmentation:

Segmentation 1: by Application

Commercial Aviation

Business and General Aviation

Military Aviation

Unmanned Aerial Vehicle (UAV)

Segmentation 2: by Fuel Type

Hydrogen Fuel

Biofuel

Power-to-Liquid Fuel

Gas-to-Liquid Fuel

Segmentation 3: by Manufacturing Technology

Fischer-Tropsch Synthetic Paraffinic Kerosene (FT-SPK)

Hydroprocessed Esters and Fatty Acids-Synthetic Paraffinic Kerosene (HEFA-SPK)

Alcohol-to-Jet Synthetic Paraffinic Kerosene (ATJ-SPK)

Synthetic ISO-Paraffin from Fermented Hydroprocessed Sugar (HFS-SIP)

Catalytic Hydrothermolysis Jet (CHJ)

Segmentation 4: by Country

U.K.

Germany

France

Rest-of-Europe

How can this report add value to an organization?

Product/Innovation Strategy: The product segment helps the reader understand the different types of products available for deployment and their potential in Europe region. Moreover, the study provides the reader with a detailed understanding of the sustainable aviation fuel market by application (commercial aviation, business and general aviation, military aviation and unmanned aerial vehicle (UAV)), product on the basis of fuel type (hydrogen fuel, biofuel, power-to-liquid fuel, and gas-to-liquid fuel), and manufacturing technology (Fischer-Tropsch Synthetic Paraffinic Kerosene (FT-SPK), Hydroprocessed Esters and Fatty Acids-Synthetic Paraffinic Kerosene (HEFA-SPK), Alcohol-to-Jet Synthetic Paraffinic Kerosene (ATJ-SPK), Synthetic ISO-Paraffin from Fermented Hydroprocessed Sugar (HFS-SIP)).

Growth/Marketing Strategy: The sustainable aviation fuel market has seen major

development by key players operating in the market, such as business expansion, partnership, collaboration, and joint venture. The favored strategy for the companies has been merger and acquisition to strengthen their position in the sustainable aviation fuel market. For instance, in February 2023, Fulcrum BioEnergy stated that its U.K. subsidiary, Fulcrum BioEnergy, Ltd., has been awarded a grant from the U.K. Department for Transport Advanced Fuels Fund of over \$20.2 million. The award, which is valid through 2025, will aid in the construction of Fulcrum NorthPoint, a plant that will convert residual waste into sustainable aviation fuel (SAF) at the Essar Stanlow site.

Competitive Strategy: Key players in the sustainable aviation fuel market analyzed and profiled in the study involve major sustainable aviation fuel offering companies providing sustainable aviation fuel and different manufacturing technology. Moreover, a detailed competitive benchmarking of the players operating in the sustainable aviation fuel market has been done to help the reader understand how players stack against each other, presenting a clear market landscape. Additionally, comprehensive competitive strategies such as partnerships, agreements, and collaborations will aid the reader in understanding the untapped revenue pockets in the market.

Methodology: The research methodology design adopted for this specific study includes a mix of data collected from primary and secondary data sources. Both primary resources (key players, market leaders, and in-house experts) and secondary research (a host of paid and unpaid databases), along with analytical tools, are employed to build the predictive and forecast models.

Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on thorough secondary research, which includes analyzing company coverage, product portfolio, market penetration, and insights, which are gathered from primary experts.

The key players operating and present in the Europe sustainable aviation fuel market include:

Shell

Neste

SkyNRG

Velocys plc

TotalEnergies

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