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Renewable Aviation Fuel Market Size, Share, and Analysis, By Fuel Type (Biofuel, Power-to-Liquid, and Gas-to-Liquid), By Technology (Fischer-Tropsch (FT), Hydro-processed Esters & Fatty Acids (HEFA), Synthesized Iso-Paraffinic (SIP), and Alcohol-to-Jet (ATJ)), By Applications (Commercial, Defense), By Region (North America, Europe, Asia-Pacific, and Rest of the World), And Regional Forecast 2024-2034

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Abstracts

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PRODUCT OVERVIEW

Renewable Aviation Fuel Market is anticipated to exhibit a Compound Annual Growth Rate (CAGR) of 51.3% during the forecast span from 2024 to 2034. In 2023, the market size was assessed at USD 1.6 billion and is projected to reach USD 157 billion by the completion of 2034.

Renewable aviation fuel (RAF), also called sustainable aviation fuel (SAF), is a sustainable option for traditional jet fuel made from renewable sources instead of fossil fuels. It is made from renewable sources such as recycled cooking oil, farm leftovers, algae, or city trash through technologies such as hydroprocessing or Fischer-Tropsch

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synthesis to provide a fuel with a similar composition to standard jet fuel. Renewable aviation fuel offers various benefits, such as low carbon emissions over its lifespan, better air quality from less particulate matter, and the ability to work with existing aircraft and infrastructure. Additionally, while it is possible to mix RAF with regular jet fuel to a limited extent, efforts are being made by the aviation industry and governments to improve its availability and use. Thus, the aim is to aggressively achieve future carbon reduction goals and diminish the aviation industry's environmental footprint.

MARKET HIGHLIGHTS

Renewable aviation fuel industry is expected to reach USD 157 billion during the forecast period, owing to major growth in the renewable aviation fuel industry, which is attracting large investment as the aviation industry seeks to reduce carbon emissions. Large airlines and fuel producers are collaborating to accelerate the innovation and adoption of sustainable fuels. In addition, governments across the world are implementing favorable policies and incentives to promote the production and utilization of RAF. However, there are still many obstacles such as limited manufacturing capabilities and the need for wider infrastructure. Despite these challenges, there is a positive market perspective, due to the increasing demand from the commercial and military aviation industries. Besides, as environmental issues are still impacting the sector, the RAF market will experience further growth in the upcoming years.

Renewable Aviation Fuel Market Segments:

By Fuel Type

Biofuel

Power-to-Liquid

Gas-to-Liquid

By Technology

Fischer-Tropsch (FT)

Hydro-processed Esters & Fatty Acids (HEFA)

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Eni S.p.A.

Fulcrum BioEnergy

Total SE

Shell plc

BP plc

LanzaJet

Red Rock Biofuels

SG Preston

Sundrop Fuels

Other Prominent Players (Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis)

Global Laboratory Temperature Control Units Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAG.R – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia

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and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA

Reasons to Purchase this Report

Qualitative and quantitative analysis of the market based on segmentation involving both economic as well as non-economic factors

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry with respect to recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market of various perspectives through Porter’s five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

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