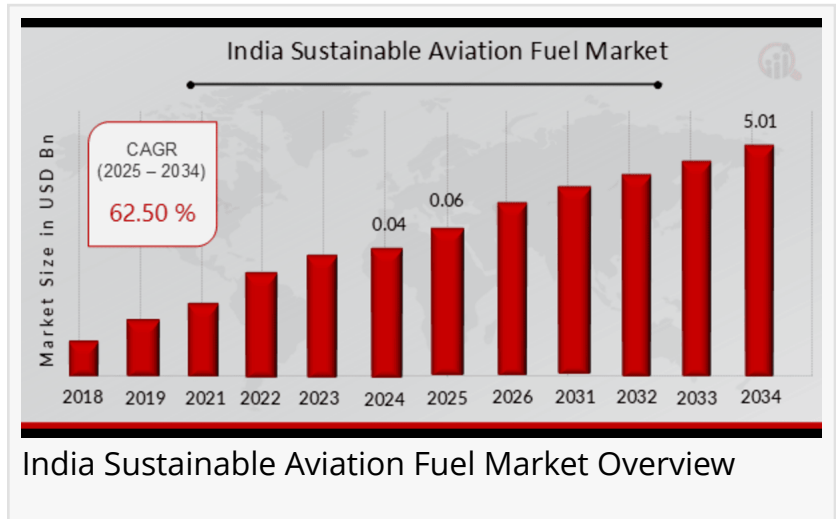


# India Sustainable Aviation Fuel Market - Projecting a Remarkable 62.50% CAGR Growth from 2025 to 2034

India's Sustainable Aviation Fuel market is growing, driven by green policies, biofuel adoption and rising demand for eco-friendly air travel.

WASHINGTON, WA, UNITED STATES, February 4, 2025 /EINPresswire.com/ -- According to a comprehensive research report by Market Research Future (MRFR), The [India Sustainable Aviation Fuel Market](#) Information by Fuel Type, Manufacturing Technology, Blending Capacity, Platform and Region -

Forecast till 2034, The Global India Sustainable Aviation Fuel Market is estimated to reach a valuation of USD 5.01 Billion at a CAGR of 62.50% during the forecast period from 2025 to 2034.



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India's Sustainable Aviation Fuel Market is set for significant growth, driven by policy support and demand.”

MRFR

## India Sustainable Aviation Fuel Market Overview

India's aviation industry is one of the fastest-growing markets in the world, driven by increasing air travel demand, expanding infrastructure, and government initiatives to enhance connectivity. However, this rapid growth also raises concerns regarding carbon emissions and environmental sustainability. To address these challenges, the adoption of Sustainable Aviation Fuel (SAF)

has emerged as a promising solution. SAF, derived from renewable sources such as biomass, waste oils, and synthetic processes, offers a cleaner alternative to conventional jet fuel, significantly reducing greenhouse gas emissions. The Indian government, in collaboration with global and domestic stakeholders, is actively exploring SAF production and deployment to achieve its net-zero aviation goals.

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## Key Players

Indian Oil Corporation Limited (IOCL)

Neste (Finland)

World Energy (Ireland)

Total Energies (France)

LanzaTech (US)

Fulcrum BioEnergy (US)

## Market Dynamics

The India Sustainable Aviation Fuel Market is in its nascent stage but is witnessing increasing interest from policymakers, airlines, and fuel producers. The market dynamics are influenced by factors such as government policies, technological advancements, feedstock availability, and the global push for carbon-neutral aviation. Investments in bio-refineries, advancements in production technologies, and strategic collaborations with international aviation bodies are shaping the SAF market in India. Additionally, fuel blending mandates, tax incentives, and research & development initiatives are expected to accelerate SAF adoption in the coming years.

## Market Drivers

Several factors are propelling the growth of the SAF market in India:

### Government Initiatives and Regulations

The Indian government has introduced various policies to promote biofuels, including SAF. The National Policy on Biofuels (2018, amended in 2022) aims to boost the production of biofuels, including SAF, by encouraging investments and setting blending targets. The Ministry of Civil Aviation (MoCA) and the Directorate General of Civil Aviation (DGCA) are also actively working on SAF guidelines and pilot projects.

### Rising Carbon Emission Concerns

India's aviation sector contributes significantly to carbon emissions. With the country's commitment to achieving net-zero emissions by 2070, SAF adoption plays a crucial role in reducing the aviation industry's carbon footprint. Airlines are increasingly exploring SAF as a means to comply with Carbon Offsetting and Reduction Scheme for International Aviation

(CORSIA) and other international environmental regulations.

### Growing Investments in Bio-Refineries

Investments in bio-refineries capable of producing SAF are on the rise. Companies such as Indian Oil Corporation (IOC), Bharat Petroleum Corporation Limited (BPCL), and Hindustan Petroleum Corporation Limited (HPCL) are investing in biofuel infrastructure. Collaborations with global SAF producers and technology providers are also strengthening India's production capabilities.

### Expansion of Domestic and International Air Travel

The growth of the aviation sector in India, driven by rising disposable incomes, urbanization, and increasing domestic and international travel, is fueling demand for alternative aviation fuels. Airlines such as IndiGo, Air India, and SpiceJet are evaluating SAF as part of their sustainability strategies.

### Support from Global Organizations

International aviation organizations, including the International Air Transport Association (IATA) and ICAO, are actively promoting SAF adoption in India through partnerships, funding support, and knowledge-sharing initiatives.

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### Market Restraints

Despite its potential, the SAF market in India faces several challenges:

#### High Production Costs

SAF production remains more expensive than conventional jet fuel, making large-scale adoption financially challenging. The cost of feedstock, technological limitations, and infrastructure development contribute to the high price of SAF.

#### Limited Feedstock Availability

The availability of raw materials such as used cooking oil, agricultural residues, and biomass is limited and fragmented. Efficient feedstock collection and processing infrastructure need to be developed to ensure a stable SAF supply chain.

#### Infrastructure and Technological Barriers

SAF production and distribution require significant infrastructure investments. India currently lacks a well-developed SAF production ecosystem, and existing refineries need technological upgrades to produce SAF at scale.

#### Regulatory and Certification Challenges

SAF must meet stringent aviation fuel standards and certification requirements before it can be used in commercial flights. The regulatory framework for SAF in India is still evolving, which may delay widespread adoption.

#### Limited Airline Adoption

Although major airlines are exploring SAF, its adoption is still in the experimental stage. The higher costs and limited availability discourage airlines from integrating SAF into their operations on a larger scale.

#### India Sustainable Aviation Fuel Market Segmentation:

##### Sustainable Aviation Fuel Type Outlook

Biofuel

Hydrogen Fuel

Power to Liquid

Gas to Liquid

##### Sustainable Aviation Fuel Manufacturing Technology Outlook

FT-SPK

HEFA-SPK

HFS-SIP

ATJ-SPK

CHJ

FT-SPK/A

HC-HEFA-SPK

##### Sustainable Aviation Fuel Blending Capacity Outlook

Below 30%

30% to 50%

Above 50%

Sustainable Aviation Fuel Platform Outlook

Commercial Aviation

Military Aviation

Business & General Aviation

Unmanned Aerial Vehicles

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Regional Analysis

The development and adoption of Sustainable Aviation Fuel in India vary across different regions, influenced by industrial presence, feedstock availability, and government initiatives.

North India

North India, particularly Delhi and Uttar Pradesh, is witnessing increasing interest in biofuel development. The Indian Oil Corporation (IOC) refinery in Panipat has taken steps toward biofuel production, and the Indira Gandhi International Airport (IGIA) in Delhi is exploring SAF trials.

Western India

Maharashtra and Gujarat are emerging as key hubs for SAF production due to their strong industrial base and availability of petrochemical infrastructure. Mumbai's Chhatrapati Shivaji Maharaj International Airport (CSMIA) is working on sustainability initiatives, and Gujarat's refining sector has the potential to integrate SAF production.

Southern India

Karnataka and Tamil Nadu are leading the way in biofuel research and development. The Hindustan Aeronautics Limited (HAL) and several research institutions in Bangalore are engaged in SAF-related studies. Chennai's refining infrastructure also presents opportunities for SAF production.

Eastern India

While Eastern India has a smaller aviation market, states like West Bengal and Odisha have biofuel potential due to their agricultural and forestry resources. However, infrastructure limitations currently hinder large-scale SAF production in the region.

## Northeastern India

The Northeast region is relatively untapped in SAF development but holds potential due to its rich biomass resources. However, logistical and infrastructural challenges remain a key obstacle.

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