

Sustainable Aviation Fuel Market by Fuel Type (Biofuel, Hydrogen Fuel Cell, Power to Liquid, Gas to Liquid), Biofuel Manufacturing Technology, Blending Capacity (Below 30%, 30% to 50%, Above 50%), Platform and Region - Global Forecast to 2030

https://marketpublishers.com/r/S9F2C9A2390FEN.html

Date: November 2023

Pages: 239

Price: US\$ 4,950.00 (Single User License)

ID: S9F2C9A2390FEN

Abstracts

The Sustainable aviation fuel Market is expected to grow from USD 1.1 billion in 2023 at a CAGR of 47.7% during the forecast period, reaching USD 16.8 billion by 2030. The sustainable aviation fuel (SAF) market is experiencing robust growth driven by several key factors. Heightened awareness of climate change and the need to reduce carbon emissions in the aviation industry is a primary catalyst, prompting airlines to adopt SAF as a cleaner alternative to traditional jet fuels. Regulatory initiatives and mandates, such as those set by the International Civil Aviation Organization (ICAO) and various governments, further propel market expansion. Increasing investments in research and development to enhance the production efficiency of SAF, coupled with advancements in feedstock technologies, contribute to the sector's growth.

"Growing industry collaboration and the economic advantages of scale is driving the market for the commercial aviation segment."

Based on Platform, the commercial aviation segment is expected to hold the largest market share. Commercial aviation holds a substantial share in the sustainable aviation fuel (SAF) market primarily due to collaborative efforts within the industry. Airlines, aircraft manufacturers, and biofuel producers are increasingly forming strategic partnerships to address the challenges of SAF adoption. This collaboration streamlines the development, certification, and deployment of sustainable aviation fuels, fostering a more cohesive and efficient approach. As commercial aviation giants actively invest in research and development, the sector not only pioneers technological advancements



but also establishes a strong market presence, steering the trajectory of SAF towards widespread acceptance and adoption in the aviation industry.

"The hydrogen fuel cells segment leads the sustainable aviation fuel (SAF) market with its high energy density, offering an efficient and effective solution."

Based on Fuel Type, the hydrogen fuel cells segment gains prominence in the sustainable aviation fuel (SAF) market due to its high energy density, offering an efficient and viable solution for powering aircraft, thereby contributing to the aviation industry's transition towards cleaner and more sustainable fuel options. Additionally, hydrogen's versatility and compatibility with existing aircraft infrastructure further solidify its position as a key player in driving the transition toward greener aviation.

"North America leads the sustainable aviation fuel market due to progressive regulatory frameworks, robust R&D initiatives, and strategic collaborations, creating an environment conducive to innovation and widespread adoption."

The North American market holds a larger share of the sustainable aviation fuel (SAF) market primarily due to progressive regulatory frameworks promoting environmental sustainability and emissions reduction in the aviation sector. Additionally, the region benefits from a robust ecosystem of research and development, strong investment initiatives, and strategic collaborations among airlines, biofuel producers, and government agencies, fostering a conducive environment for SAF innovation and adoption. This proactive approach positions North America at the forefront of the global SAF market, reflecting a commitment to sustainable aviation practices and aligning with the broader industry's push towards reducing carbon footprints.

Breakdown of the profiles of primary participants:

By Company Type: Tier 1 - 55%, Tier 2 - 20%, and Tier 3 - 25%

By Designation: C-level Executives - 50%, Directors - 25%, and Others - 25%

By Region: North America - 60%, Europe - 20%, Asia Pacific - 10%, South America - 5%,

and MEA-5%



Neste (Finland), World Energy (Ireland), Total Energies (France), LanzaTech (US), and Fulcrum BioEnergy (US), among others are some of the leading players operating in the sustainable aviation fuel market report.

Research Coverage:

This research report categorizes the Sustainable aviation fuel market basis of Fuel type (Biofuel, Hydrogen fuel cell, power to liquid, gas to liquid), biofuel manufacturing technology (FT-SPK, HEFA-SPK, HFS-SIP, ATJ-SPK, CHJ, FT-SPK/A, and HC-HEFA-SPK), platform (commercial aviation, military aviation, business & general aviation, unmanned aerial vehicles), By Blending Capacity (below 30%, 30%-50%, above 50%) in these segments have been mapped across major Regions (North America, Europe, Asia Pacific, Middle East and Latin America). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the Sustainable Aviation Fuel market. A detailed analysis of the key industry players has been done to provide insights into their business overviews; solutions and services; key strategies; agreements, collaborations, new product launches, contracts, expansion, acquisitions, and partnerships associated with the sustainable aviation fuel market. Competitive analysis of upcoming startups in the sustainable aviation fuel market ecosystem is covered in this report.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall sustainable aviation fuel market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

An in-depth analysis of the market's DROCs (Drivers, Restraints, Opportunities, and Challenges) to provide a comprehensive grasp of the factors influencing the Sustainable aviation fuel Market. The report explores the significant drivers fueling market expansion, including the rising demand for aircraft with improved fuel efficiency and the continuous evolution of fuel technologies. It also covers the obstacles confronting the industry, such as stringent regulatory compliance.



Moreover, the report sheds light on the emerging prospects within the market, notably the increasing emphasis on electric and hybrid propulsion systems for aircraft. Furthermore, it evaluates the competitive landscape, market trends, and regional dynamics, furnishing valuable insights for stakeholders seeking effective strategies in the ever-evolving Sustainable aviation fuel Market.

Market Penetration: Comprehensive information on sustainable aviation fuel offered by the top players in the market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the sustainable aviation fuel market.

Market Development: Comprehensive information about lucrative markets – the report analyzes sustainable aviation fuel across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the sustainable aviation fuel market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players in the sustainable aviation fuel market.



Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
 - 1.2.1 INCLUSIONS AND EXCLUSIONS
- TABLE 1 INCLUSIONS AND EXCLUSIONS
- 1.3 STUDY SCOPE
 - 1.3.1 MARKETS COVERED
- FIGURE 1 SUSTAINABLE AVIATION FUEL MARKET SEGMENTATION
 - 1.3.2 REGIONS COVERED
 - 1.3.3 YEARS CONSIDERED
- 1.4 CURRENCY CONSIDERED
- TABLE 2 USD EXCHANGE RATES
- 1.5 STAKEHOLDERS
- 1.6 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
- FIGURE 2 RESEARCH FLOW
- FIGURE 3 RESEARCH DESIGN
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Primary respondents
 - 2.1.2.2 Key data from primary sources
- FIGURE 4 BREAKDOWN OF PRIMARY INTERVIEWS
- 2.2 FACTOR ANALYSIS
 - 2.2.1 DEMAND-SIDE INDICATORS
 - 2.2.1.1 Rapid adoption of sustainable aviation fuel by airlines
 - 2.2.1.2 Growing demand for air travel
 - 2.2.2 SUPPLY-SIDE INDICATORS
 - 2.2.2.1 Improvements in technological pathways and blending capacities
- 2.3 MARKET SIZE ESTIMATION
 - 2.3.1 BOTTOM-UP APPROACH
- FIGURE 5 BOTTOM-UP APPROACH
 - 2.3.2 TOP-DOWN APPROACH



FIGURE 6 TOP-DOWN APPROACH
2.4 DATA TRIANGULATION
FIGURE 7 DATA TRIANGULATION
2.5 GROWTH RATE ASSUMPTIONS
FIGURE 8 INSIGHTS FROM INDUSTRY EXPERTS
2.6 RESEARCH ASSUMPTIONS

2.7 RESEARCH LIMITATIONS

2.8 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

FIGURE 9 BIOFUEL TO BE LARGEST SEGMENT DURING FORECAST PERIOD FIGURE 10 HFS-SIP SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 11 ABOVE 50% TO BE FASTEST-GROWING SEGMENT DURING FORECAST PERIOD

FIGURE 12 COMMERCIAL AVIATION TO SECURE LEADING MARKET POSITION DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN SUSTAINABLE AVIATION FUEL MARKET

FIGURE 13 RISE IN DEMAND FOR REDUCTION OF CARBON AND GHG EMISSIONS

4.2 SUSTAINABLE AVIATION FUEL MARKET, BY BLENDING CAPACITY
FIGURE 14 BELOW 30% SEGMENT TO HOLD LARGEST MARKET SHARE IN 2030
4.3 SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL MANUFACTURING
TECHNOLOGY

FIGURE 15 HEFA-SPK TO SURPASS OTHER SEGMENTS DURING FORECAST PERIOD

4.4 SUSTAINABLE AVIATION FUEL MARKET, BY REGION FIGURE 16 MIDDLE EAST TO BE FASTEST-GROWING MARKET DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS



FIGURE 17 SUSTAINABLE AVIATION FUEL MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Focus on reducing greenhouse gas (GHG) emissions

FIGURE 18 COMPARISON OF CLIMATE IMPACT FROM HYDROGEN PROPULSION AND SYNFUEL, 2050

5.2.1.2 Rise in air passenger traffic

FIGURE 19 CO2 EMISSIONS, BY AIRCRAFT TYPE AND RANGE, 2022

5.2.1.3 Higher fuel efficiency than conventional jet fuels

5.2.2 RESTRAINTS

5.2.2.1 Shortage of feedstocks and refineries

5.2.2.2 Significant price difference between sustainable and conventional jet fuels

5.2.3 OPPORTUNITIES

5.2.3.1 Increasing demand for sustainable aviation fuel from airlines

TABLE 3 AIRPORTS WITH SUSTAINABLE AVIATION FUEL BLENDING AND SUPPLY FACILITIES

5.2.3.2 Sustainable aviation fuel's drop-in capability boosts demand for carbon footprint reduction

5.2.3.3 Government initiatives for sustainable fuel alternatives

5.2.4 CHALLENGES

- 5.2.4.1 High operating cost of airlines
- 5.2.4.2 Inconsistencies in techno-economic and lifecycle analyses
- 5.2.4.3 Huge capital requirement for approval and certification of sustainable aviation fuel
 - 5.2.4.4 Limitations associated with blending capacity
- 5.3 RECESSION IMPACT ANALYSIS
- 5.4 PRICING ANALYSIS

TABLE 4 AVERAGE SELLING PRICE TREND OF SUSTAINABLE AVIATION FUEL, BY FUEL TYPE (USD/LITER)

FIGURE 20 AVERAGE SELLING PRICE TREND OF SUSTAINABLE AVIATION FUEL, BY FUEL TYPE (USD/LITER)

TABLE 5 AVERAGE SELLING PRICE TREND OF SUSTAINABLE AVIATION FUEL, BY FUEL MANUFACTURER (USD/LITER)

FIGURE 21 AVERAGE SELLING PRICE TREND OF SUSTAINABLE AVIATION FUEL, BY FUEL MANUFACTURER (USD/LITER)

FIGURE 22 AVERAGE SELLING PRICE TREND OF SUSTAINABLE AVIATION FUEL, BY REGION (USD/LITER)

TABLE 6 AVERAGE SELLING PRICE TREND OF SUSTAINABLE AVIATION FUEL, BY REGION (USD/LITER)

5.5 JET FUEL VS. SUSTAINABLE AVIATION FUEL PRICING TREND



5.5.1 VOLUME AND PRICE

FIGURE 23 VOLUME AND PRICE OF JET AND SUSTAINABLE AVIATION FUELS 5.5.2 FUEL CONSUMPTION AND EMISSION

TABLE 7 AVERAGE CONSUMPTION AND EMISSION OF JET AND SUSTAINABLE AVIATION FUELS

5.5.3 OPERATIONAL COST AND EFFICIENCY

5.5.4 INFRASTRUCTURE REQUIREMENT

5.6 VALUE CHAIN ANALYSIS

FIGURE 24 VALUE CHAIN ANALYSIS

5.7 ECOSYSTEM MAPPING

FIGURE 25 ECOSYSTEM MAPPING

TABLE 8 ROLE OF COMPANIES IN ECOSYSTEM

5.8 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 26 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

5.9 PORTER'S FIVE FORCES ANALYSIS

TABLE 9 PORTER'S FIVE FORCES ANALYSIS

FIGURE 27 PORTER'S FIVE FORCES ANALYSIS

- 5.9.1 THREAT OF NEW ENTRANTS
- 5.9.2 THREAT OF SUBSTITUTES
- 5.9.3 BARGAINING POWER OF SUPPLIERS
- 5.9.4 BARGAINING POWER OF BUYERS
- 5.9.5 INTENSITY OF COMPETITIVE RIVALRY
- 5.10 TARIFF AND REGULATORY LANDSCAPE
 - 5.10.1 TARIFF RELATED TO SUSTAINABLE AVIATION FUEL
- 5.10.2 ORGANIZATIONS INVOLVED IN SUSTAINABLE AVIATION FUEL PROGRAMS
 - 5.10.2.1 Sustainable Aviation Fuel Users Group
 - 5.10.2.2 Initiatives by International Air Transport Association Members
 - 5.10.2.3 Commercial Aviation Alternative Fuels Initiative
 - 5.10.2.4 NORDIC & NISA Initiatives for Sustainable Aviation
 - 5.10.2.5 Air Transport Action Group
 - 5.10.2.6 International Civil Aviation Organization
 - 5.10.2.7 International Renewable Energy Agency
- 5.10.3 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 10 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 11 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS



TABLE 12 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 REST OF THE WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

- 5.11 USE CASE ANALYSIS
 - **5.11.1 OFFTAKE AGREEMENTS**
 - 5.11.2 SUNFIRE E-CRUDE PLANT
 - 5.11.3 POWER-TO-LIQUID TECHNOLOGY PLANT
 - 5.11.4 GREEN PROPELLANT INFUSION
- **5.12 VOLUME DATA**

TABLE 14 EXISTING AIRCRAFT FLEET, BY PLATFORM, 2019–2028 (UNITS)

TABLE 15 SUSTAINABLE AVIATION FUEL OFFTAKE AGREEMENTS PER FUEL PRODUCER, 2015–2021 (MILLION LITERS)

TABLE 16 SUSTAINABLE AVIATION FUEL OFFTAKE AGREEMENTS PER FUEL PURCHASER, 2015–2021 (MILLION LITERS)

5.13 COST CONTRIBUTION OF ELEMENTS ACROSS SUSTAINABLE AVIATION FUEL SUPPLY CHAIN

TABLE 17 COST CONTRIBUTION OF ELEMENTS ACROSS SUSTAINABLE AVIATION FUEL SUPPLY CHAIN

- 5.13.1 FACTORS INFLUENCING SUSTAINABLE AVIATION FUEL COST
 - 5.13.1.1 Improved feedstock yields
 - 5.13.1.2 Advanced bio-manufacturing technology
 - 5.13.1.3 Increased production of sustainable aviation fuel
- 5.13.2 ROLE OF SUSTAINABLE AVIATION FUEL CERTIFICATES, REGISTRIES, AND BOOK AND CLAIM SYSTEMS
 - 5.13.2.1 Sustainable Aviation Fuel Certificates
 - 5.13.2.2 Sustainable Aviation Fuel Registries
 - 5.13.2.3 Book and Claim Systems
- **5.14 OPERATIONAL DATA**

FIGURE 28 PROJECTED CAPACITY OF SUSTAINABLE AVIATION FUEL PRODUCTION, BY COUNTRY

FIGURE 29 PROJECTED CAPACITY OF SUSTAINABLE AVIATION FUEL PRODUCTION, BY COMPANY

FIGURE 30 PROJECTED FACILITIES FOR SUSTAINABLE AVIATION FUEL PRODUCTION, BY COUNTRY

- 5.15 KEY STAKEHOLDERS AND BUYING CRITERIA
 - 5.15.1 STAKEHOLDERS IN BUYING PROCESS

FIGURE 31 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR SUSTAINABLE AVIATION FUEL



TABLE 18 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR SUSTAINABLE AVIATION FUEL (%)

5.15.2 KEY BUYING CRITERIA

TABLE 19 KEY BUYING CRITERIA FOR SUSTAINABLE AVIATION FUEL FIGURE 32 KEY BUYING CRITERIA FOR SUSTAINABLE AVIATION FUEL

6 INDUSTRY TRENDS

- 6.1 INTRODUCTION
- **6.2 TECHNOLOGY TRENDS**
 - 6.2.1 HYDROTHERMAL LIQUEFACTION
 - 6.2.2 PYROLYSIS
 - 6.2.3 ALCOHOL-TO-JET (ATJ)
 - 6.2.4 HYCOGEN
 - 6.2.5 FISCHER-TROPSCH (FT)
 - 6.2.6 HYBRID ELECTRIC PROPULSION
 - 6.2.7 ELECTROFUEL
- 6.3 IMPACT OF MEGATRENDS
 - 6.3.1 BLOCKCHAIN INTEGRATION FOR SUPPLY CHAIN TRANSPARENCY
 - 6.3.2 ARTIFICIAL INTELLIGENCE FOR FEEDSTOCK OPTIMIZATION
 - 6.3.3 ADVANCED ANALYTICS FOR MARKET FORECASTING
 - 6.3.4 COLLABORATIVE INDUSTRY PLATFORMS FOR KNOWLEDGE SHARING
 - 6.3.5 CIRCULAR ECONOMY INITIATIVES FOR FEEDSTOCK UTILIZATION
- 6.4 SUPPLY CHAIN ANALYSIS

FIGURE 33 SUPPLY CHAIN ANALYSIS

6.5 PATENT ANALYSIS

TABLE 20 MAJOR PATENTS, 2019–2022

FIGURE 34 TOP PATENT APPLICANTS

7 SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE

7.1 INTRODUCTION

FIGURE 35 SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 21 SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 22 SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

7.2 BIOFUEL



7.2.1 LONG-TERM SUSTAINABILITY PLANS TO DRIVE GROWTH 7.3 HYDROGEN FUEL

7.3.1 REDUCTION IN GHG EMISSIONS TO DRIVE GROWTH
TABLE 23 CURRENT HYDROGEN-POWERED AIRCRAFT DEVELOPMENTS
7.4 POWER-TO-LIQUID

7.4.1 LOW LIFECYCLE EMISSIONS TO DRIVE GROWTH 7.5 GAS-TO-LIQUID

7.5.1 TECHNOLOGICAL ADVANCEMENTS TO DRIVE GROWTH

8 SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL MANUFACTURING TECHNOLOGY

8.1 INTRODUCTION

FIGURE 36 SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL MANUFACTURING TECHNOLOGY, 2023–2030 (USD MILLION)
TABLE 24 SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL MANUFACTURING TECHNOLOGY, 2019–2022 (USD MILLION)
TABLE 25 SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL MANUFACTURING TECHNOLOGY, 2023–2030 (USD MILLION)
8.2 FISCHER-TROPSCH SYNTHETIC PARAFFINIC KEROSENE (FT-SPK)

- 8.3 HYDROPROCESSED ESTERS AND FATTY ACIDS SYNTHETIC PARAFFINIC KEROSENE (HEFA-SPK)
- 8.4 SYNTHETIC ISO-PARAFFINS FROM FERMENTED HYDROPROCESSED SUGAR (HFS-SIP)
- 8.5 ALCOHOL-TO-JET SYNTHETIC PARAFFINIC KEROSENE (ATJ-SPK)
- 8.6 CATALYTIC HYDROTHERMOLYSIS JET (CHJ)
- 8.7 HYDROPROCESSED ESTERS AND FATTY ACIDS SYNTHETIC PARAFFINIC KEROSENE (HC-HEFA-SPK)
- 8.8 FISCHER-TROPSCH SYNTHETIC PARAFFINIC KEROSENE ALTERNATIVE (FT-SPK/A)

9 SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY

9.1 INTRODUCTION

FIGURE 37 SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

TABLE 26 SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 27 SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING



CAPACITY, 2023-2030 (USD MILLION)

9.2 BELOW 30%

9.2.1 FOCUS ON LOWERING DEPENDENCY ON PETROLEUM FUELS TO DRIVE GROWTH

9.3 30-50%

9.3.1 NEED TO REDUCE CARBON FOOTPRINT IN AVIATION INDUSTRY TO DRIVE GROWTH

9.4 ABOVE 50%

9.4.1 R&D IN TECHNOLOGICAL PATHWAYS TO DRIVE GROWTH

10 SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM

10.1 INTRODUCTION

FIGURE 38 SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM, 2023–2030 (USD MILLION)

TABLE 28 SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 29 SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM, 2023–2030 (USD MILLION)

10.2 COMMERCIAL AVIATION

10.2.1 NARROW-BODY AIRCRAFT (NBA)

10.2.1.1 Rise in air travel and air passenger traffic to drive growth

10.2.2 WIDE-BODY AIRCRAFT (WBA)

10.2.2.1 Need to reduce GHG emissions to drive growth

10.2.3 REGIONAL TRANSPORT AIRCRAFT (RTA)

10.2.3.1 Increasing use of alternative fuels to drive growth

10.3 MILITARY AVIATION

10.3.1 FIGHTER JET

10.3.1.1 Emphasis on military sustainability and greener defense solutions to drive growth

10.3.2 TRANSPORT AIRCRAFT

10.3.2.1 Increasing recognition of energy security by defense agencies to drive growth

10.3.3 MILITARY HELICOPTER

10.3.3.1 Focus on operational flexibility within defense operations to drive growth 10.4 BUSINESS AND GENERAL AVIATION

10.4.1 BUSINESS JET

10.4.1.1 Expansion of private aviation companies to drive growth

10.4.2 COMMERCIAL HELICOPTER



- 10.4.2.1 Emphasis on corporate social responsibility and sustainability by helicopter operators to drive growth
- 10.5 UNMANNED AERIAL VEHICLE (UAV)
 - 10.5.1 COMMERCIAL UNMANNED AERIAL VEHICLE
- 10.5.1.1 Ongoing projects for development of hydrogen fuel cell aircraft to drive growth
 - 10.5.2 MILITARY UNMANNED AERIAL VEHICLE
 - 10.5.2.1 Diverse use in defense applications to drive growth

11 SUSTAINABLE AVIATION FUEL MARKET, BY END USER

11.1 INTRODUCTION

FIGURE 39 SUSTAINABLE AVIATION FUEL MARKET, BY END USER, 2023–2030 (USD MILLION)

TABLE 30 SUSTAINABLE AVIATION FUEL MARKET, BY END USER, 2019–2022 (USD MILLION)

TABLE 31 SUSTAINABLE AVIATION FUEL MARKET, BY END USER, 2023–2030 (USD MILLION)

11.2 AIRLINE

TABLE 32 AIRLINE: SUSTAINABLE AVIATION FUEL MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 33 AIRLINE: SUSTAINABLE AVIATION FUEL MARKET, BY TYPE, 2023–2030 (USD MILLION)

- 11.2.1 LARGE AIRLINE
 - 11.2.1.1 Financial strength and ample resources to drive growth
- 11.2.2 MEDIUM AIRLINE
 - 11.2.2.1 Regulatory pressure and increased passenger traffic to drive growth
- 11.2.3 SMALL AIRLINE
- 11.2.3.1 Government support for use of sustainable aviation fuel to drive growth 11.3 NON-SCHEDULED OPERATOR
- 11.3.1 GOVERNMENT INCENTIVES AND INVESTMENTS IN SUSTAINABLE AVIATION FUEL PRODUCTION TO DRIVE GROWTH
- 11.4 GOVERNMENT/MILITARY
- 11.4.1 COLLABORATIVE EFFORTS AMONG STRATEGIC PARTNERS TO DRIVE GROWTH

12 SUSTAINABLE AVIATION FUEL MARKET, BY REGION

12.1 INTRODUCTION



FIGURE 40 SUSTAINABLE AVIATION FUEL MARKET, BY REGION, 2023–2030 TABLE 34 SUSTAINABLE AVIATION FUEL MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 35 SUSTAINABLE AVIATION FUEL MARKET, BY REGION, 2023–2030 (USD MILLION)

12.2 NORTH AMERICA

12.2.1 PESTLE ANALYSIS

FIGURE 41 NORTH AMERICA: SUSTAINABLE AVIATION FUEL MARKET SNAPSHOT

TABLE 36 NORTH AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 37 NORTH AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

TABLE 38 NORTH AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 39 NORTH AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 40 NORTH AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL MANUFACTURING TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 41 NORTH AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL MANUFACTURING TECHNOLOGY, 2023–2030 (USD MILLION)

TABLE 42 NORTH AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 43 NORTH AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

TABLE 44 NORTH AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 45 NORTH AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM, 2023–2030 (USD MILLION)

12.2.2 US

12.2.2.1 Rising concerns about carbon emissions to drive growth

TABLE 46 US: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 47 US: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 48 US: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 49 US: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)



12.2.3 CANADA

12.2.3.1 Innovations focused on lowering carbon footprint to drive growth TABLE 50 CANADA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 51 CANADA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 52 CANADA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 53 CANADA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.3 ASIA PACIFIC

12.3.1 PESTLE ANALYSIS

FIGURE 42 ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET SNAPSHOT TABLE 54 ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 55 ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

TABLE 56 ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 57 ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 58 ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL MANUFACTURING TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 59 ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL MANUFACTURING TECHNOLOGY, 2023–2030 (USD MILLION)

TABLE 60 ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 61 ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

TABLE 62 ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 63 ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM, 2023–2030 (USD MILLION)

12.3.2 INDIA

12.3.2.1 Government support for adoption of sustainable aviation fuel to drive growth TABLE 64 INDIA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 65 INDIA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)



TABLE 66 INDIA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL

BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 67 INDIA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL

BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.3.3 AUSTRALIA

12.3.3.1 Development of commercial supply chains of sustainable aviation fuel to drive growth

TABLE 68 AUSTRALIA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 69 AUSTRALIA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 70 AUSTRALIA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 71 AUSTRALIA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.3.4 SOUTH KOREA

12.3.4.1 Increasing investments in sustainable aviation solutions to drive growth TABLE 72 SOUTH KOREA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 73 SOUTH KOREA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE. 2023–2030 (USD MILLION)

TABLE 74 SOUTH KOREA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 75 SOUTH KOREA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.3.5 JAPAN

12.3.5.1 Development of sustainable aviation fuel by key domestic players to drive growth

TABLE 76 JAPAN: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 77 JAPAN: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 78 JAPAN: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 79 JAPAN: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.3.6 CHINA

12.3.6.1 Collaborations between Chinese airlines, airframe manufacturers, and biofuel producers to drive growth



TABLE 80 CHINA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 81 CHINA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 82 CHINA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 83 CHINA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.3.7 SINGAPORE

12.3.7.1 Presence of oil & gas multinationals to drive growth

TABLE 84 SINGAPORE: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 85 SINGAPORE: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 86 SINGAPORE: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 87 SINGAPORE: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.3.8 REST OF ASIA PACIFIC

TABLE 88 REST OF ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 89 REST OF ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 90 REST OF ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 91 REST OF ASIA PACIFIC: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION) 12.4 EUROPE

12.4.1 PESTLE ANALYSIS

FIGURE 43 EUROPE: SUSTAINABLE AVIATION FUEL MARKET SNAPSHOT TABLE 92 EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 93 EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

TABLE 94 EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 95 EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 96 EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL



MANUFACTURING TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 97 EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL

MANUFACTURING TECHNOLOGY, 2023–2030 (USD MILLION)

TABLE 98 EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL

BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 99 EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL

BLENDING CAPACITY, 2023–2030 (USD MILLION)

TABLE 100 EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM,

2019-2022 (USD MILLION)

TABLE 101 EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM,

2023-2030 (USD MILLION)

12.4.2 GERMANY

12.4.2.1 Advancements in technological pathways to drive growth

TABLE 102 GERMANY: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE,

2019–2022 (USD MILLION)

TABLE 103 GERMANY: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE,

2023-2030 (USD MILLION)

TABLE 104 GERMANY: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL

BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 105 GERMANY: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL

BLENDING CAPACITY, 2023-2030 (USD MILLION)

12.4.3 UK

12.4.3.1 Presence of prominent sustainable aviation fuel manufacturers to drive

growth

TABLE 106 UK: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE,

2019-2022 (USD MILLION)

TABLE 107 UK: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE,

2023-2030 (USD MILLION)

TABLE 108 UK: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING

CAPACITY, 2019–2022 (USD MILLION)

TABLE 109 UK: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING

CAPACITY, 2023–2030 (USD MILLION)

12.4.4 FRANCE

12.4.4.1 Initiatives on low carbon strategy from global leaders to drive growth

TABLE 110 FRANCE: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE.

2019-2022 (USD MILLION)

TABLE 111 FRANCE: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE,

2023-2030 (USD MILLION)

TABLE 112 FRANCE: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL



BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 113 FRANCE: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.4.5 DENMARK

12.4.5.1 Rapid development of sustainable fuel by aviation industry to drive growth TABLE 114 DENMARK: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 115 DENMARK: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 116 DENMARK: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 117 DENMARK: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.4.6 FINLAND

12.4.6.1 Long-term initiatives for production of e-fuels to drive growth

TABLE 118 FINLAND: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 119 FINLAND: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 120 FINLAND: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 121 FINLAND: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.4.7 REST OF EUROPE

TABLE 122 REST OF EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 123 REST OF EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 124 REST OF EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 125 REST OF EUROPE: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)
12.5 MIDDLE EAST

12.5.1 PESTLE ANALYSIS

FIGURE 44 MIDDLE EAST: SUSTAINABLE AVIATION FUEL MARKET SNAPSHOT TABLE 126 MIDDLE EAST: SUSTAINABLE AVIATION FUEL MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 127 MIDDLE EAST: SUSTAINABLE AVIATION FUEL MARKET, BY COUNTRY, 2023–2030 (USD MILLION)



TABLE 128 MIDDLE EAST: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 129 MIDDLE EAST: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 130 MIDDLE EAST: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL MANUFACTURING TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 131 MIDDLE EAST: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL MANUFACTURING TECHNOLOGY, 2023–2030 (USD MILLION)

TABLE 132 MIDDLE EAST: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 133 MIDDLE EAST: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

TABLE 134 MIDDLE EAST: SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 135 MIDDLE EAST: SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM, 2023–2030 (USD MILLION)

12.5.2 UAE

12.5.2.1 New initiatives on sustainability to drive growth

TABLE 136 UAE: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 137 UAE: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 138 UAE: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION

TABLE 139 UAE: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.5.3 BAHRAIN

12.5.3.1 Projects testing scalability of sustainable aviation fuel in airlines to drive growth

TABLE 140 BAHRAIN: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 141 BAHRAIN: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 142 BAHRAIN: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 143 BAHRAIN: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.5.4 QATAR

12.5.4.1 Focus of domestic airlines on biofuel production to drive growth



TABLE 144 QATAR: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 145 QATAR: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 146 QATAR: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 147 QATAR: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.6 LATIN AMERICA

12.6.1 PESTLE ANALYSIS

FIGURE 45 LATIN AMERICA: SUSTAINABLE AVIATION FUEL MARKET SNAPSHOT TABLE 148 LATIN AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 149 LATIN AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

TABLE 150 LATIN AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 151 LATIN AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 152 LATIN AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL MANUFACTURING TECHNOLOGY, 2019–2022 (USD MILLION) TABLE 153 LATIN AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY

BIOFUEL MANUFACTURING TECHNOLOGY, 2023–2030 (USD MILLION)

TABLE 154 LATIN AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 155 LATIN AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

TABLE 156 LATIN AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 157 LATIN AMERICA: SUSTAINABLE AVIATION FUEL MARKET, BY PLATFORM, 2023–2030 (USD MILLION)

12.6.2 BRAZIL

12.6.2.1 GHG reduction initiatives to drive growth

TABLE 158 BRAZIL: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 159 BRAZIL: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 160 BRAZIL: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2019–2022 (USD MILLION)



TABLE 161 BRAZIL: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL BLENDING CAPACITY, 2023–2030 (USD MILLION)

12.6.3 MEXICO

12.6.3.1 Boost in R&D of sustainable aviation fuel to drive growth

TABLE 162 MEXICO: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2019–2022 (USD MILLION)

TABLE 163 MEXICO: SUSTAINABLE AVIATION FUEL MARKET, BY FUEL TYPE, 2023–2030 (USD MILLION)

TABLE 164 MEXICO: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL

BLENDING CAPACITY, 2019–2022 (USD MILLION)

TABLE 165 MEXICO: SUSTAINABLE AVIATION FUEL MARKET, BY BIOFUEL

BLENDING CAPACITY, 2023–2030 (USD MILLION)

13 COMPETITIVE LANDSCAPE

13.1 INTRODUCTION

13.2 STRATEGIES ADOPTED BY KEY PLAYERS, 2020-2023

TABLE 166 STRATEGIES ADOPTED BY KEY PLAYERS, 2020–2023

13.3 MARKET SHARE ANALYSIS, 2023

FIGURE 46 MARKET SHARE OF KEY PLAYERS, 2023

TABLE 167 DEGREE OF COMPETITION

13.4 RANKING ANALYSIS, 2023

FIGURE 47 MARKET RANKING OF KEY PLAYERS, 2023

13.5 REVENUE ANALYSIS, 2023

FIGURE 48 REVENUE ANALYSIS OF KEY PLAYERS, 2023

13.6 COMPANY EVALUATION MATRIX, 2023

13.6.1 STARS

13.6.2 EMERGING LEADERS

13.6.3 PERVASIVE PLAYERS

13.6.4 PARTICIPANTS

FIGURE 49 COMPANY EVALUATION MATRIX, 2023

13.6.5 COMPANY FOOTPRINT

TABLE 168 COMPANY FOOTPRINT

TABLE 169 PLATFORM FOOTPRINT

TABLE 170 REGION FOOTPRINT

13.7 START-UP/SME EVALUATION MATRIX, 2023

13.7.1 PROGRESSIVE COMPANIES

13.7.2 RESPONSIVE COMPANIES

13.7.3 DYNAMIC COMPANIES



13.7.4 STARTING BLOCKS

FIGURE 50 START-UP/SME EVALUATION MATRIX, 2023

13.7.5 COMPETITIVE BENCHMARKING

TABLE 171 KEY START-UPS/SMES

TABLE 172 COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES

13.8 COMPETITIVE SCENARIO

13.8.1 DEALS

TABLE 173 DEALS 196 "14 COMPANY PROFILES14.1 KEY PLAYERS

(Business overview, Products/Solutions/Services offered, Recent developments, MnM view, Key strengths, Strategic choices, and Weaknesses and Competitive threats)*

14.1.1 NESTE

TABLE 174 NESTE: COMPANY OVERVIEW FIGURE 51 NESTE: COMPANY SNAPSHOT

TABLE 175 NESTE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 176 NESTE: DEALS

14.1.2 FULCRUM BIOENERGY

TABLE 177 FULCRUM BIOENERGY: COMPANY OVERVIEW

TABLE 178 FULCRUM BIOENERGY: PRODUCTS/SOLUTIONS/SERVICES

OFFERED

TABLE 179 FULCRUM BIOENERGY: DEALS

14.1.3 LANZATECH

TABLE 180 LANZATECH: COMPANY OVERVIEW

TABLE 181 LANZATECH: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 182 LANZATECH: DEALS

14.1.4 WORLD ENERGY, LLC

TABLE 183 WORLD ENERGY, LLC: COMPANY OVERVIEW

TABLE 184 WORLD ENERGY, LLC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 185 WORLD ENERGY, LLC: DEALS

14.1.5 TOTALENERGIES

TABLE 186 TOTALENERGIES: COMPANY OVERVIEW FIGURE 52 TOTALENERGIES: COMPANY SNAPSHOT

TABLE 187 TOTALENERGIES: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 188 TOTALENERGIES: DEALS

14.1.6 GEVO

TABLE 189 GEVO: COMPANY OVERVIEW FIGURE 53 GEVO: COMPANY SNAPSHOT

TABLE 190 GEVO: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 191 GEVO: DEALS

14.1.7 SG PRESTON



TABLE 192 SG PRESTON: COMPANY OVERVIEW

TABLE 193 SG PRESTON: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 194 SG PRESTON: DEALS

14.1.8 VELOCYS PLC

TABLE 195 VELOCYS PLC: COMPANY OVERVIEW FIGURE 54 VELOCYS PLC: COMPANY SNAPSHOT

TABLE 196 VELOCYS PLC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 197 VELOCYS PLC: DEALS

14.1.9 NORTHWEST ADVANCED BIO-FUELS, LLC

TABLE 198 NORTHWEST ADVANCED BIO-FUELS, LLC: COMPANY OVERVIEW

TABLE 199 NORTHWEST ADVANCED BIO-FUELS, LLC:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 200 NORTHWEST ADVANCED BIO-FUELS, LLC: DEALS

14.1.10 SKYNRG

TABLE 201 SKYNRG: COMPANY OVERVIEW

TABLE 202 SKYNRG: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 203 SKYNRG: DEALS

14.1.11 RED ROCK BIOFUELS

TABLE 204 RED ROCK BIOFUELS: COMPANY OVERVIEW

TABLE 205 RED ROCK BIOFUELS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 206 RED ROCK BIOFUELS: DEALS

14.1.12 AEMETIS, INC.

TABLE 207 AEMETIS, INC.: COMPANY OVERVIEW

TABLE 208 AEMETIS, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 209 AEMETIS, INC.: DEALS

14.1.13 PROMETHEUS FUELS

TABLE 210 PROMETHEUS FUELS: COMPANY OVERVIEW

TABLE 211 PROMETHEUS FUELS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 212 PROMETHEUS FUELS: DEALS

14.1.14 WASTEFUEL

TABLE 213 WASTEFUEL: COMPANY OVERVIEW

TABLE 214 WASTEFUEL: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 215 WASTEFUEL: DEALS

14.1.15 ALDER RENEWABLES

TABLE 216 ALDER RENEWABLES: COMPANY OVERVIEW

TABLE 217 ALDER RENEWABLES: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 218 ALDER RENEWABLES: DEALS

14.1.16 SAF+ CONSORTIUM

TABLE 219 SAF+ CONSORTIUM: COMPANY OVERVIEW



TABLE 220 SAF+ CONSORTIUM: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 221 SAF+ CONSORTIUM: DEALS

14.1.17 PREEM AB

TABLE 222 PREEM AB: COMPANY OVERVIEW

TABLE 223 PREEM AB: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 224 PREEM AB: DEALS

14.1.18 OMV GROUP

TABLE 225 OMV GROUP: COMPANY OVERVIEW

TABLE 226 OMV GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 227 OMV GROUP: DEALS

14.1.19 BP P.L.C.

TABLE 228 BP P.L.C.: COMPANY OVERVIEW

FIGURE 55 BP P.L.C.: COMPANY SNAPSHOT

TABLE 229 BP P.L.C.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 230 BP P.L.C.: DEALS

14.2 OTHER PLAYERS

14.2.1 ATMOSFAIR

14.2.2 PHILLIPS 66 COMPANY

14.2.3 SUNDROP FUELS, INC.

14.2.4 HYPOINT INC.

14.2.5 ZEROAVIA, INC.

*Details on Business overview, Products/Solutions/Services offered, Recent developments, MnM view, Key strengths, Strategic choices, and Weaknesses and Competitive threats might not be captured in case of unlisted companies.

15 APPENDIX

- 15.1 DISCUSSION GUIDE
- 15.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL
- 15.3 CUSTOMIZATIONS OPTIONS
- 15.4 RELATED REPORTS
- 15.5 AUTHOR DETAILS



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