

Global eSAF Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global eSAF market size was valued at US\$ 2.1 million in 2023 and is forecast to a readjusted size of USD 1296 million by 2030 with a CAGR of 173.6% during review period.

eSAF, also sometimes called Power-to-Liquid (PtL) fuels, synthetic fuels, or Power-to-X, do not use direct organic compounds as feedstocks like other pathways do, and is therefore not a biofuel. Instead, this pathway uses captured CO₂ (from industrial sources and direct air capture), renewable electricity, and clean hydrogen (e.g., from water) as feedstocks.

eSAF supports global efforts to decarbonize the aviation sector, which is a significant challenge due to the high energy demand and difficulty of electrifying large commercial aircraft. The International Air Transport Association (IATA) and other aviation bodies have set ambitious goals to reduce aviation emissions to net-zero by 2050, and eSAF is seen as a crucial part of achieving this. eSAF represents the most promising SAF pathway in global efforts to decarbonize the aviation industry.

From the perspective of product types Fischer-Tropsch Synthesis (FTS) method has gained significant dominance in the market.

In term of products application, the Commercial Aviation market is presently the largest downstream market for eSAF.

While eSAF holds tremendous potential in terms of reducing carbon emissions and providing a sustainable alternative to conventional jet fuel, its high production costs present significant challenges. As of now, the cost of producing eSAF is estimated to be in the range of \$7 to \$12 per gallon or higher, depending on the region and the specific technologies used. This is significantly more expensive than conventional jet fuel, which typically costs around \$2 to \$3 per gallon. The high cost of eSAF is a major barrier to widespread adoption by airlines, as they must balance fuel costs with profitability. The

aviation industry is under pressure to reduce its carbon footprint, but the higher cost of eSAF limits its use, especially when cheaper alternatives like conventional fossil jet fuel remain prevalent.

But the potential for eSAF to reach cost parity with conventional jet fuels is becoming more achievable as renewable energy costs continue to decline and carbon procurement methods evolve. With green hydrogen production becoming more affordable and innovative methods to source carbon from industrial waste gases, the production costs for eSAF are expected to decrease significantly in the coming years. As these technologies mature, coupled with supportive legislation and policy frameworks (such as SAF blending mandates and eSAF can become a competitive and sustainable alternative to fossil jet fuel, making a crucial contribution to decarbonizing the aviation sector and achieving global net-zero goals.

This report is a detailed and comprehensive analysis for global eSAF market. Both quantitative and qualitative analyses are presented by manufacturers, 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 2024, are provided.

Key Features:

Global eSAF market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2019-2030

Global eSAF market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2019-2030

Global eSAF market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2019-2030

Global eSAF market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2019-2024

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 eSAF

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 eSAF market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Twelve, P2X Europe, Zero Petroleum, Infinium, Willis Sustainable Fuels, Norsk e-Fuel, Arcadia eFuels, CEEC (Enegy China), Metafuels, Power2X, etc.

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

Market Segmentation

eSAF market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Fischer-Tropsch Synthesis (FTS)
- Methanol-to-Jet (MtJ)

Market segment by Application

- Commercial Aviation
- Military Aviation
- Others

Major players covered

- Twelve
- P2X Europe
- Zero Petroleum
- Infinium
- Willis Sustainable Fuels
- Norsk e-Fuel
- Arcadia eFuels
- CEEC (Enegy China)
- Metafuels
- Power2X
- SkyNRG
- HIF Global

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe eSAF product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of eSAF, with price, sales quantity, revenue, and global market share of eSAF from 2019 to 2024.

Chapter 3, the eSAF competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the eSAF breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and eSAF market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of eSAF.

Chapter 14 and 15, to describe eSAF sales channel, distributors, customers, research findings and conclusion.

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