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Zero-Emission Aircraft Market by Source (Hydrogen, Electric, and Solar), Range (Short-Haul, Medium-Haul, and Long-Haul), Application (Passenger Aircraft and Cargo Aircraft) and Type (Turboprop Rear Bulkhead, Turbofan System, and Blended Wing Body): Global Opportunity Analysis and Industry Forecast, 2030–2040

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Abstracts

Zero-emission aircraft make use of energy sources that doesn’t release any harmful effluents into the environment. They are a viable option to power aircraft amidst rapidly declining reserves of fossil fuels, high operational costs of aircraft, and rising greenhouse effect across the world. Experts are continuously developing and testing zero-emission aircraft technologies using hydrogen, electricity, and solar cells. Companies, such as ZeroAvia, Inc., magniX, and others, have successfully tested their zero-emission aircraft in recent years.

There are some challenges associated with zero-emission aircraft in both battery-powered and hydrogen-based models. The major limitations related to electric aircraft are the heavyweight of batteries and the recharging time, for instance, at present, the chargers take hours to recharge the batteries. Hydrogen aircraft have their share of limitations too. Today, liquid hydrogen storage is one of the most viable possibilities, although storing hydrogen as compressed gas has issues in terms of aircraft weight and volume. However, all major aircraft manufacturers and numerous startups are working tirelessly to address the obstacles of zero-emission aircraft by researching, creating, and developing innovative technologies. Several manufacturers expect the commercial launch of full-scale aircraft by 2030-2040.

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Increased air passenger traffic across the globe and reduced GHG emissions are expected to drive the zero-emission aircraft market during the forecast period. However, technological challenges associated with solar, electric, and hydrogen-powered aircraft and high costs associated with the production and handling of hydrogen are anticipated to hamper the growth of the market. Moreover, proactive government initiatives toward the development of zero-emission aircraft and advancements in zero-emission aircraft technologies are expected to offer lucrative opportunities in future.

The market segmentation is based on source, range, application, type, and region. By source, the market is divided into hydrogen, electric, and solar. Based on range, it is classified into short-haul, medium-haul, and long-haul. Based on application, it is bifurcated into passenger aircraft and cargo aircraft. Based on type, it is bifurcated into turboprop rear bulkhead, turbofan system, and blended wing body. Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Competitive analysis and profiles of the major zero-emission aircraft market players include AeroDelft, Airbus S.A.S., Bye Aerospace, Eviation Aircraft, HES Energy Systems, Joby Aviation, Lilium, Pipistrel d.o.o, Wright Electric, and ZeroAvia, Inc.

KEY BENEFITS FOR STAKEHOLDERS

This study presents analytical depiction of the global zero-emission aircraft market analysis along with current trends and future estimations to depict imminent investment pockets.

The overall zero-emission aircraft market opportunity is determined by understanding profitable trends to gain a stronger foothold.

The report presents information related to the key drivers, restraints, and opportunities of the global zero-emission aircraft market with a detailed impact analysis.

The current zero-emission aircraft market is quantitatively analyzed from 2030 to 2040 to benchmark the financial competency.

Porter’s five forces analysis illustrates the potency of the buyers and suppliers

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in the industry.

KEY MARKET SEGMENTS

By Source

- Hydrogen
- Electric
- Solar

By Range

- Short-Haul
- Medium-Haul
- Long-Haul

By Application

- Passenger Aircraft
  - Cargo Aircraft

By Type

- Turboprop Rear Bulkhead
- Turbofan System
- Blended Wing Body

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By Region

- North America
  - U.S.
  - Canada
  - Mexico
- Europe
  - UK
  - Germany
  - France
  - Russia
  - Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - South Korea
  - Rest of Asia Pacific
- LAMEA
  - Latin America
  - Middle East
  - Africa

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KEY PLAYERS

AeroDelft

Airbus S.A.S.

Bye Aerospace

Eviation Aircraft

HES Energy Systems

Joby Aviation

Lilium

Pipistrel d.o.o

Wright Electric

ZeroAvia, Inc.

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