Zero-Emission Aircraft Market Future Challenges and Industry Growth Outlook 2040 | AeroDelft, Airbus S.A.S

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

WILMINGTON, DE, UNITED STATES, February 5, 2025 /EINPresswire.com/ -- Allied Market Research published a report, titled, "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." According to the report, the global zero-emission aircraft industry is estimated at $29.24 billion in 2030, and is anticipated to hit $191.97 billion by 2040, registering a CAGR of 20.7% from 2030 to 2040.

> The global zero-emission aircraft market is expected to be valued at $29.24 billion in 2030, and reach $191.97 billion in 2040, registering a CAGR of 20.7%.
>
> *Allied Market Research*

Drivers, restraints, and opportunities-

Surge in air passenger traffic and reduced GHG emissions across the globe drive the growth of the global zero-emission aircraft market. On the other hand, technological challenges and high costs associated with solar, electric, and hydrogen-powered aircrafts restrain the growth to some extent. However, proactive government initiatives toward zero-emission powered aircrafts and advancements in zero-emission aircraft technologies are expected to create multiple opportunities in the industry.

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The hydrogen segment to dominate by 2040-

Based on systems, the hydrogen segment is expected to account for nearly 94% of the global zero-emission aircraft market share in 2030, and is expected to lead the trail by the end of 2040. This is attributed to its high suitability as the aviation fuel. The solar segment, on the other hand,

would register the fastest CAGR of 29.3% throughout the forecast period, due to wide availability of solar energy throughout the world.

The passenger aircraft segment to maintain the dominant share-

Based on installation type, the passenger aircraft segment is projected to hold nearly 92% of the global zero-emission aircraft market revenue in 2030, and is anticipated to rule the roost by 2040. Passenger aircrafts represent a high number of aircrafts globally, and their zero-emission counterparts are expected to help bring down GHG emissions to a significant extent. This factor drives the growth of the segment. However, the cargo aircraft segment would cite the fastest CAGR of 25.6% from 2030 to 2040. Simple design of cargo aircrafts fuels the segment growth.

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Europe, followed by North America, will garnered the highest share in 2030-

Based on region, Europe, followed by North America, is expected to contribute to more than half of the global zero-emission aircraft market, and would continue the lion's share by 2040, owing to high investment and adoption of strict emission norms in this province. However, the market across Asia-Pacific would manifest the fastest CAGR of 23.3% during the forecast period, due to rise in air-traffic in the region.

Key players in the industry-
Airbus S.A.S.
AeroDelft
Eviation Aircraft
Bye Aerospace
Joby Aviation
Lilium
Pipistrel d.o.o
Wright Electric
HES Energy Systems
ZeroAvia, Inc.

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Key Findings Of The Study

By source, the solar segment is expected to register significant growth during the forecast period.
By range, the medium-haul segment is anticipated to exhibit significant growth in future.

By application, the cargo aircraft segment is projected to lead the global zero-emission aircraft market, owing to higher CAGR as compared to the passenger aircraft segment.
By type, the turbofan system segment is projected to lead the global zero-emission aircraft market, owing to higher CAGR as compared to the passenger aircraft segment.
By region, Asia-Pacific is anticipated to register the highest CAGR during the forecast period.

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 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 in the industry.

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