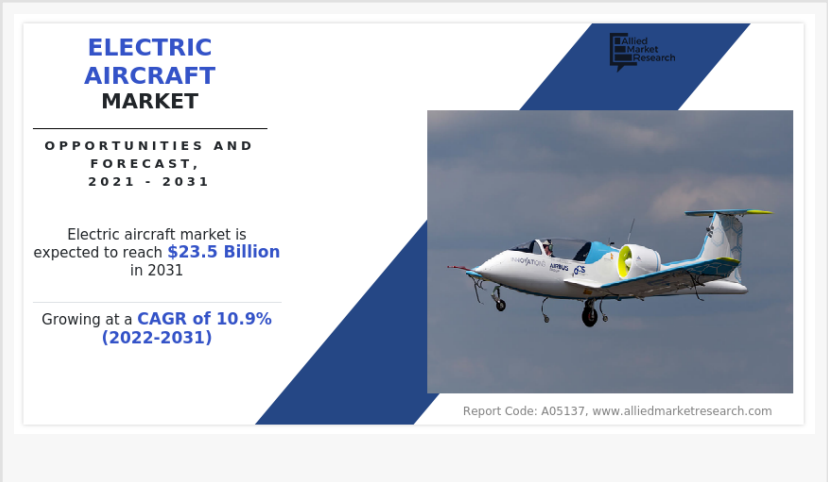
Electric Aircraft Market Size, Share, Growth, Overview, Price, Outlook, Report And Forecast

The increase in environmental concerns, technological advancement in batteries and electric propulsion systems, rise in demand for short range regional routes.



WILMINGTON, DE, UNITED STATES, August 1, 2025 /EINPresswire.com/ -- Electric aircraft market size generated $8.5 billion in 2021, and is anticipated to generate $23.5 billion by 2031, witnessing a CAGR of 10.9% from 2022 to 2031.

The increase in environmental concerns, technological advancement in batteries and electric propulsion systems, rise in demand for short range regional routes, and surge in efforts to reduce overall carbon footprint and operational cost of aviation industry drive the growth of the global electric aircraft market. However, several challenges such as the requirement of large and bulky batteries to generate required power, the need to charge the aircraft frequently before scheduled flight path, and limited infrastructure capabilities restrict the market growth. Moreover, the rise in efforts by major companies across the globe to develop electric aircraft capabilities, supported by their research and development budgets, is presenting new opportunities in the coming years.

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Significant factors impacting the growth of the electric aircraft market include integration of AI and ML in optimization of power resources, technological innovation to improve the efficiency of aircraft batteries, customer-centric approach, goal to achieve carbon net neutrality, rise in number of electric aircraft vendors across the globe, impact of COVID-19, establishment of regulatory infrastructure, increase in air traffic passengers, inclination of end-user towards human-machine interface, supporting automation, and threat of cybersecurity and data breach.

Aerostructures are one of the most crucial components of electric aircraft. The efficiency of

electric propulsion system coupled with aerodynamics of an aircraft will play a major role in deciding the flight length of an aircraft. New design concepts and innovation in manufacturing technologies to manufacture aircrafts with improved aerodynamics is one of the major factors supporting the market growth.

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Both primary (single use) and secondary (rechargeable) batteries can be utilized in aviation applications. Any battery intended for use as a power source for devices installed on or regularly transported on aircraft must not only be secure but also ideally have a high energy density, be lightweight, dependable, require little upkeep, and function effectively over a broad range of environmental conditions. Battery manufacturers continue to develop new technologies in an effort to realize these ideals, but frequent compromises in these non-safety objectives are required, and in some cases, the safety implications of new designs have been overlooked, especially in light of the rapidly expanding use of Lithium batteries. Research and development toward increase in overall operating capacity of battery support the business opportunities.

Based on region, North America held the highest market share in terms of revenue in 2021, accounting for nearly one-third of the global electric aircraft market, and is likely to dominate the market during the forecast period. This region is expected to witness the fastest CAGR of 12.3% from 2022 to 2031, owing to presence of significant number of companies in the region. Technological advancement in North America is intended to ensure secure, cost-effective, and efficient channels of electric aircraft manufacturing processes.

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Leading Market Players: -

Ampaire Inc.,
Duxion,
Elbit Systems Ltd.,
Embraer SA,
Joby Aviation,
Lilium,
VOLOCOPTER GMBH,
ZeroAvia,
Airbus,
PIPISTREL d.o.o.,
AeroVironment, Inc.,
EHang Holdings Ltd.,
Eviation,

Rolls Royce Plc,
Wright Electric, Inc.

The report provides a detailed analysis of these key players of the global electric aircraft industry. These players have adopted different strategies such as new product launches, collaborations, expansion, joint ventures, agreements, and others to increase their market share and maintain dominant shares in different regions. The report is valuable in highlighting business performance, operating segments, product portfolio, and strategic moves of market players to showcase the competitive scenario.

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