

Global Commercial Electric Aircraft Market Size Study & Forecast, by Platform, Range, Power, and Regional Forecasts 2025-2035

<https://marketpublishers.com/r/C60AEE506345EN.html>

Date: June 2025

Pages: 285

Price: US\$ 3,750.00 (Single User License)

ID: C60AEE506345EN

Abstracts

Global Commercial Electric Aircraft Market is valued approximately at USD 43.84 billion in 2024 and is expected to soar at a staggering CAGR of 48.3% throughout the forecast period 2025–2035. Commercial electric aircraft—once a far-fetched vision of sustainable aviation—have now transitioned into a rapidly evolving reality, reshaping the future of air mobility. These aircraft rely on electric propulsion systems that reduce carbon emissions, operational noise, and fuel dependency. The escalating pressure to decarbonize aviation, coupled with advancements in battery technology, electric propulsion, and lightweight materials, is fueling the demand for this transformative aviation segment. The market is predominantly driven by regulatory mandates on emissions, the increasing viability of urban air mobility, and strategic investments from aerospace giants and startups alike.

The push toward commercializing electric aircraft is being reinforced by growing global awareness of environmental issues and the aerospace sector's urgent need to transition to greener alternatives. Several governments and aviation authorities have ramped up funding and policy incentives to accelerate R&D in this domain. Furthermore, short-haul regional travel and intra-city air taxi networks present lucrative avenues for electric aviation, especially in congested urban areas. Business jets and regional transport aircraft are leading the charge in early adoption, with sub-500 km range aircraft poised to dominate in the near term. Nonetheless, challenges related to battery energy density, high upfront costs, certification complexities, and infrastructure scalability remain critical hurdles to overcome in the commercialization roadmap.

Geographically, North America is expected to retain a dominant position in the global commercial electric aircraft market, driven by the presence of major players like Boeing,

Lockheed Martin, and emerging disruptors such as Joby Aviation and Archer Aviation. The region's supportive regulatory environment, substantial R&D budgets, and a maturing ecosystem of electric aircraft startups have collectively accelerated development and pilot projects. Meanwhile, Europe is experiencing robust momentum owing to EU-backed sustainability mandates, innovation programs, and strategic collaborations between legacy aerospace firms and clean aviation ventures. The Asia Pacific region, led by China and Japan, is emerging as a hotbed for electric aircraft manufacturing and adoption, as governments aggressively invest in smart mobility infrastructure and green aviation initiatives.

Major market players included in this report are:

Boeing

Airbus SE

Joby Aviation

Evation Aircraft

Lilium GmbH

Vertical Aerospace

Embraer S.A.

Pipistrel

Beta Technologies

Textron Inc.

magniX

Bye Aerospace

Heart Aerospace

Ampaire Inc.

Archer Aviation

Global Commercial Electric Aircraft Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Platform:

Regional Transport Aircraft

20–40 Seats

40 Seats

Business Jets

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