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Electric Aircraft Market by platform (Regional Transport Aircraft, Business Jets, Light & Ultralight Aircraft), Type, System (Batteries, Electric Motors, Aerostructures, Avionics, Software), Technology, Application and Region - Forecast to 2030

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Abstracts

The Electric Aircraft market is expected to grow from USD 8.8 billion in 2022 to USD 37.2 billion in 2030, at a CAGR of 19.8% during the forecast period.

The integration of technologies such as IoT, artificial intelligence, and machine learning has helped increase the efficiency of electric aircraft. With advancements in chemical technologies in the form of lithium/fluorinated carbon (Li/CFx) batteries, manufacturers and innovators have been successful in developing high energy-to-weight ratio aircraft batteries that increase the range of electric aircraft and allow more MTOW. Manufacturers are focusing their R&D efforts on developing electrodes and cell separators that increase the reliability and safety of battery systems for prolonged service life in rigorous environments. The development of integrated battery monitoring systems is a prime example of the advancements and measures undertaken by the aircraft battery industry to ensure the optimal performance of batteries and associated products. These technological advancements will reduce restrictions and challenges related to the adoption of electric aircraft in the future.

Light and Ultralight Segment expected to have larger market share during the forecast period

By platform, light and ultralight segment is expected to have a larger market share during the forecast period. Electric Regional transport aircraft and business jet aircraft are expected to have witness introduction into the market in late 2026 early 2027. Until

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this period the light and ultralight aircraft like UAVs, General Aircraft, Trainer Aircraft will contribute more to the market. Due to these factors light and ultralight segment would have larger market share during this period.

Rotary Wing segment to dominate the market during the forecast period.

Based on type, rotary wing segment is witnessing largest market share across the forecast period. Major developments are being made in the Rotary wing segment mainly eVTOL aircraft. Rotary wing UAVs are majorly electric in nature and are widely used across many applications in commercial, government and military. With the advent of Urban air travel due to the ease of operation and maneuverability, eVTOLs are the choice of technology that is witnessing larger adoption.

Break-up of profile of primary participants in the Electric Aircraft market:

By Company Type: Tier 1 – 20%, Tier 2 – 55%, and Tier 3 – 25%

By Designation: C Level – 50%, Director Level – 25%, and Others – 25%

By Region: North America – 60%, Europe – 20%, Asia Pacific – 10%, South America– 5%, and RoW – 5%

Major players operating in the electric aircraft market include Airbus SE (France), Eve Air Mobility (Brazil), Joby Aviation (US), Vertical Aerospace (UK), and Lilium N.V. (Germany) among others. These key players offer electric aircraft solutions and services to different key stakeholders.

Research Coverage:

This research report categorizes the Electric Aircraft market on the basis of Electric Aircraft market by platform (Regional Transport Aircraft, Business Jets, Light & Ultralight Aircraft), Type, System (Batteries, Electric Motors, Aerostructures, Avionics, Software, Others) Technology, Application, and Region. These segments have been mapped across major regions, namely, North America, Europe, Asia Pacific, Middle East, Latin America, and Africa. The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the Electric Aircraft market. A detailed analysis of the key industry players has been done to provide insights into their business overviews; solutions and services; key

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strategies; new product launches; mergers; and partnerships, agreements, and collaborations; and recent developments associated with the Electric Aircraft market. In addition, the startups in Electric Aircraft market ecosystem are covered in this report to provide usable insights and developments happening in the emerging market of Electric Aircraft.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall Electric Aircraft market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Market Penetration: Comprehensive information on Electric Aircraft market offered by the top players in the market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches, contracts, agreements, and expansion plans in the Electric Aircraft market.

Market Development: Comprehensive information about lucrative markets – the report analyzes the Electric Aircraft market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the Electric Aircraft market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, products, and manufacturing capabilities of leading players in the Electric Aircraft market.

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