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# Aircraft Electrification Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

https://marketpublishers.com/r/A3067B04BDC4EN.html
Date: November 2024
Pages: 230
Price: US$ 4,850.00 (Single User License)
ID: A3067B04BDC4EN

## Abstracts

The Global Aircraft Electrification Market, valued at USD 8.3 billion in 2024, is projected to grow at a CAGR of 14.2% from 2025 to 2034. This growth is largely driven by the aviation industry's increasing focus on sustainability and reducing carbon emissions as environmental concerns continue to rise worldwide. Airlines, governments, and passengers are all prioritizing eco-friendly travel options, leading to an increased demand for green technologies. Electric aircraft, with their potential for lower emissions and renewable energy integration, are becoming key players in this shift.

Governments across the globe are introducing stricter regulations to combat climate change, which further fuels the adoption of electric and hybrid aircraft. These regulations include carbon taxes, emissions caps, and net-zero emissions targets. These policies encourage innovation within the aviation industry, pushing manufacturers and airlines to seek cleaner technologies to meet compliance standards. In response to these regulations, electric propulsion systems are being developed, and airlines are aligning their fleets to meet government policies, accelerating the transition to more sustainable aviation.

The aircraft electrification market can be broken down into several components, such as batteries, solar cells, electric actuators, fuel cells, generators, motors, electric pumps, power electronics, and distribution devices. Among these, the electric motors segment holds the largest market share, accounting for 21.3% in 2024. Electric motors are critical in advancing electric propulsion, offering lightweight, high-efficiency, and reliable solutions for aviation. Manufacturers are increasingly focused on enhancing motor power density and reducing energy consumption to improve aircraft performance.

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As regional and urban air mobility gains traction, there is a greater emphasis on motor technology innovation. The demand for scalable electric motors, particularly for electric vertical takeoff and landing (eVTOL) aircraft, is growing. These smaller, compact motors are designed to be lightweight and energy-efficient, providing sustainable solutions for short-haul flights. As battery technology progresses, electric motors are expected to generate enough thrust for a wider range of aircraft, from regional jets to larger commercial planes.

Regarding technology, the market is divided into three segments: hybrid electric, more electric, and fully electric. The hybrid electric segment is the fastest-growing, with a projected CAGR of 14.5%. Hybrid-electric aircraft combine conventional engines with electric propulsion, offering a practical solution for longer regional flights where fully electric planes may struggle with range. This technology reduces fuel consumption and emissions, providing a transitional path to more sustainable aviation. As battery technology continues to advance, hybrid-electric aircraft will become more viable for commercial use.

The North America aircraft electrification market is expected to exceed USD 11.5 billion by 2034. The region is seeing significant progress in electric aircraft development, supported by federal regulations and funding initiatives aimed at reducing carbon emissions. Both the U.S. and Canada are making strides in the electrification of aircraft, with the aerospace industry fostering collaborations to accelerate these efforts.

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# Contents

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## CHAPTER 7 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021-2034 (USD MILLION)



## CHAPTER 8 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2034 (USD MILLION)

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## CHAPTER 9 COMPANY PROFILES

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