More Electric Aircraft Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> **Industry:** Commercial Aviation & Avionics (Aerospace & Defense)
> **Source:** https://www.mordorintelligence.com/industry-reports/more-electric-aircraft-market
> **Scraped Date:** 2026-09-17

Executive Market Summary

Market Metric	Details
Base Market Size	USD 6.29 billion
Projected Forecast (2031)	USD 6.29 billion
Growth Rate (CAGR)	11.92 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market OverviewStudy Period | 2020 - 2031 |
Market Size (2026) | USD 6.29 Billion |
Market Size (2031) | USD 11.04 Billion |
Growth Rate (2026 - 2031) | 11.92 % |
Fastest Growing Market | Asia Pacific |
Largest Market | North America |
Market Concentration | Medium |
Major Players*Disclaimer: Major Players sorted in no particular order

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Market Overview

More Electric Aircraft Market Analysis by Mordor IntelligenceThe more electric aircraft (MEA) market size in 2026 is estimated at USD 6.29 billion, growing from 2025 value of USD 5.62 billion with 2031 projections showing USD 11.04 billion, growing at 11.92% CAGR over 2026-2031. Rising fuel prices, carbon-reduction mandates, and the maturation of high-power electronics push airlines and airframers to swap hydraulic and pneumatic subsystems for electrical architectures. Airlines report fuel-burn savings of up to 20% when engines no longer bleed air for environmental control, while power-dense generators and solid-state batteries support longer electric endurance. Fixed-wing programs such as the B787 prove bleed-less operation in service, and eVTOL developers apply the same logic to urban missions. As a result, incumbents and start-ups race to secure wide-bandgap semiconductors, thermal control materials, and high-voltage certification slots to keep pace with demand.

Key Report Takeaways* By aircraft type, commercial aviation held 39.12% of the more electric aircraft market share in 2025, whereas urban air mobility and eVTOL platforms are poised for the fastest expansion at a 15.38% CAGR through 2031.
* By platform, fixed-wing designs led with 63.10% of the more electric aircraft market share in 2025; rotary-wing and powered-lift programs outpace at a 12.18% CAGR to 2031.
* By system, power-generation and management hardware accounted for 56.10% of the more electric aircraft market size in 2025, while electromechanical actuation grows quickest at an 12.14% CAGR through 2031.
* By end-user, OEMs controlled 53.21% of 2025 value, yet the aftermarket segment accelerates at 12.31% CAGR through 2031.
* By geography, North America commanded 34.96% revenue in 2025, whereas Asia-Pacific registers the highest regional CAGR at 12.24% to 2031.

Key Market Trends

Market Trends and InsightsDrivers Impact Analysis of More Electric Aircraft Market*Driver | (~) % Impact on CAGR Forecast | Geographic Relevance | Impact Timeline |
Electrification drive to cut fuel burn and CO_2 | +3.2% | Global | Medium term (2-4 years) |
Global emission regulations tightening | +2.8% | North America and EU; spill-over to APAC | Short term (≤ 2 years) |
High-power motors and SiC/GaN electronics | +2.1% | Global; early adoption in North America | Medium term (2-4 years) |
Solid-state batteries enable power-spike loads | +1.9% | APAC core; spill-over to North America | Long term (≥ 4 years) |
ESG-driven retrofit demand for APUs | +1.4% | North America and EU | Short term (≤ 2 years) |
Stealth-focused electric actuation (defense) | +0.9% | North America; selective EU markets | Medium term (2-4 years) |
Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

The more electric aircraft market is moderately concentrated. Legacy primes—Collins Aerospace, Honeywell, Safran, GE Aerospace, and Rolls-Royce—command program-management prowess and hold deep certification experience that newcomers cannot replicate quickly. All five invested in dedicated power-electronics test halls between 2024 and 2025, signaling a strategic pivot from turbine-only portfolios t

o full electrified propulsion stacks.

Acquisition remains the favoured route to close technology gaps. Honeywell purch ased battery-management software start-ups to complement its flight-control line . Safran absorbed ePropelled's motor IP, integrating stator manufacturing into i ts Villeurbanne facility. GE Aerospace partnered with magniX to co-develop megaw att generators for commuter aircraft, using GE's additive manufacturing to speed stator prototyping. Such moves tighten vertical control over critical path item s—power electronics, thermal loops, and certification data packages—leaving comp onent-only firms vulnerable unless they join broader ecosystems.

Start-ups differentiate through agility and niche focus. Wright Electric emphasi zes 186-seat short-haul missions to replace aging narrow-bodies, whereas Ampaire concentrates on hybrid conversions of existing regional aircraft to leverage cu rrent airframes. Joby Aviation's FAA special conditions for its JAS4-1 grant ear ly-mover status and potential licensing revenue, establishing regulatory barrier s for later entrants. As wide-bandgap chips and advanced batteries trend toward commodity status by 2030, sustainable competitive advantage will likely hinge on integration skill and digital twins that optimize system-of-systems performance rather than on single component superiority.

More Electric Aircraft Industry Leaders* Airbus SE

* The Boeing Company

* Safran SA

* Honeywell International Inc.

* RTX Corporation

* *Disclaimer: Major Players sorted in no particular order

Scope Methodology P Space

For this methodology, the more electric aircraft market covers the value of airc raft-level electrical architectures and onboard systems that replace or reduce h ydraulic and pneumatic functions with electrical power across fixed-wing and rot ary platforms.

Scope exclusions: We exclude pure airframe structures, conventional fuel and eng ine hardware, and airport-side charging infrastructure unless it is sold as part of an aircraft system package.

Segmentation Container

* By Aircraft Type* Commercial Aviation
* Military Aviation
* Business and General Aviation
* Unmanned Aerial Vehicles (UAV)
* Urban Air Mobility/eVTOL

* By Platform* Fixed Wing
* Rotary Wing

* By System* Power Generation and Management* Electric Power Generation
* Power Conversion
* Power Distribution

* Actuation System* Flight Control Actuation
* Landing Gear Actuation

* Thermal Management System
* Engine Start System
* Environmental Control System
* Others

* By End-user* OEM
* Aftermarket

* By Geography* North America* United States
* Canada
* Mexico

* Europe* United Kingdom
* France
* Germany
* Rest of Europe

* Asia-Pacific* China
* Japan
* India
* South Korea
* Rest of Asia-Pacific

* South America* Brazil
* Rest of South America

* Middle East and Africa* Middle East* Saudi Arabia
* United Arab Emirates
* Rest of Middle East

* Africa* South Africa
* Rest of Africa

Frequently Asked Questions

What is the current value of the more electric aircraft market?

The market stands at USD 6.29 billion in 2026 and is projected to climb to USD 11.04 billion by 2031, advancing at a 11.92% CAGR.

Which aircraft category is growing fastest?

Urban air-mobility and eVTOL platforms record the highest growth at a 15.38% CAGR through 2031.

Why do airlines favor electric actuation over hydraulics?

Electric actuators cut maintenance, prevent fluid leaks, and integrate seamlessly with predictive-maintenance software, improving dispatch reliability.

Which region leads demand today, and which region grows quickest?

North America leads in 2025 with 34.96% revenue, while Asia-Pacific posts the steepest growth at 12.24% CAGR.

What technologies most influence future adoption?

Wide-bandgap SiC/GaN power electronics, solid-state batteries above 500 Wh/kg, and megawatt-class starter-generators define the performance envelope for next-generation electric aircraft.

How will the aftermarket evolve for electric aircraft?

The aftermarket is expected to outpace OEM sales at 12.31% CAGR as airlines require specialized training, insulated tooling, and digital monitoring to service high-voltage systems.