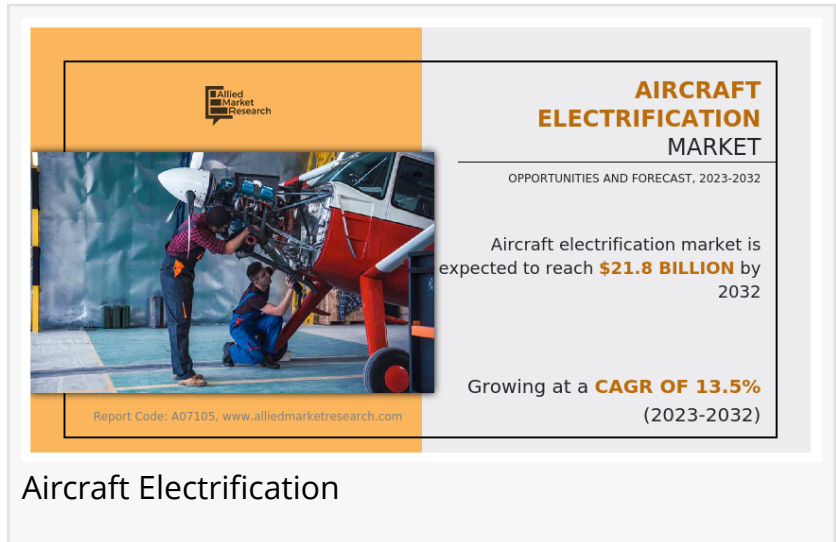


Aircraft Electrification Market to Hit \$21.8 Bn by 2032, Driven by Advancements in Electric Propulsion Technologies

Aircraft Electrification Market (2022-2032) Size, Share, Competitive Landscape and Trend Analysis Report, by Component, by Application, by Technology and Region

WILMINGTON, DE, UNITED STATES, June 11, 2026 /EINPresswire.com/ -- [Aircraft electrification market](#) size generated \$6.2 billion in 2022, and is anticipated to generate \$21.8 billion by 2032, witnessing a CAGR of 13.5% from 2023 to 2032.



The global aircraft electrification market is driven by factors such as increasing need for cleaner and quieter aircraft, rise in demand for electrical components in aircraft, and advancement in electric aircraft propulsion systems. However, high voltage and thermal issues of aircraft electrical systems and high capital requirements are hampering the aircraft electrification market growth. On the contrary, expansion of alternative power sources, and development of lithium-ion batteries are expected to offer remunerative opportunities for the expansion of the aircraft electrification market during the forecast period.

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Aircraft electrification refers to the use of electric power in various systems and components of an aircraft, as opposed to traditional fossil fuel-based technologies. This covers electrically powered systems including air conditioning, hydraulic systems, and other auxiliary systems, as well as electric motors, batteries, power electronics, and distribution systems.

There is a growing demand for aircraft electrification due to the need for more efficient and environmentally friendly aircraft, the demand for lower operating costs, and advancements in electric propulsion and energy storage technologies. Aircraft electrification is the need to reduce the environmental impact of aviation. Electric propulsion systems produce fewer emissions than

traditional fossil fuel-based systems, making them a more environmentally friendly option. For instance, in 2020, Airbus revealed three concepts for hydrogen-powered aircraft that could enter service by 2035. These planes would offer a more sustainable and efficient solution for the aviation industry.

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Moreover, advancements in electric propulsion and energy storage technologies are driving the adoption of electrification in aircraft. The development of more efficient and powerful electric motors, as well as high-capacity batteries, is making it possible to design and operate aircraft with greater range and performance.

In recent years, the US government has actively encouraged the creation and use of aircraft electrification technologies. The Electric Aircraft Safety and Sustainability Initiative, a new initiative of the Federal Aviation Administration (FAA) that intends to facilitate the safe integration of electric aircraft into the national airspace system, was unveiled in 2021. The Center of Excellence for Electric Propulsion and Energy Storage, a partnership between the FAA and various institutions focused on improving electric propulsion technology, is one of the efforts that the FAA has formed to encourage the development of electric aviation technologies. The US government has also provided funding for the development of electric and hybrid electric aircraft through initiatives such as the Small Business Innovation Research program and the Advanced Technology Vehicles Manufacturing loan program.

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Based on region, Europe held the highest market share in terms of revenue in 2021, accounting for more than two-fifths of the global aircraft electrification market revenue and is estimated to maintain its leadership status throughout the forecast period, owing to rise in investment, and R&D activities among the civil, defense, and commercial aviation industries for developing power electronics, high-density electric motors and other technological advancements in the aviation industry. However, the Asia-Pacific region is expected to witness the fastest CAGR of 15.6% from 2023 to 2032, owing to growing economies such as China, India, Japan, and others in the Asia-Pacific region require versatile air transportation solutions across the region.

Leading Market Players: -

Ametek

Astronics Corporation

BAE Systems plc

Honeywell International Inc.

Magnix

Meggitt PLC
Collins Aerospace
Rolls Royce Plc
Safran
Thales Group

The report provides a detailed analysis of these key players of the global [aircraft electrification 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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