

Global Electric and Hybrid Aircraft - Market & Technology Forecast to 2028

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Abstracts

Between 2010 and 2019 a consistent upsurge has been noticed in the electrification of aircraft systems, research on electrical propulsion, and investments in electric or hybrid aircraft designs. Aerospace firms are joining forces to challenge their industry's growing contribution to greenhouse gas emissions, with electric engines seen as one of the answers. In simple terms, "hybrid electric" denotes two diverse sources of power, and on aircraft this means being propelled by kerosene and an electric battery.

Market Forecast's latest report "Global Electric & Hybrid Aircraft - Market and Technology Forecast to 2028" examines, analyzes, and predicts the evolution of electric & hybrid aircraft technologies, markets, and outlays (expenditures) over the next 8 years – 2020 -2028 in the aerospace industry. It also examines electric & hybrid aircraft markets geographically, focusing on the top 95% of global markets, in the United States, Europe, and Asia. In this report we analyze the market size of the Global Electric & Hybrid Aircraft market for the period 2020 – 2028. We primarily focus on the key markets – Americas, Europe, Asia, Middle East and Africa. As of now the United States remains the largest market for electric & hybrid aircraft followed by China and the European Union. Throughout the report we show how electric & hybrid aircraft are used today to add real value. To provide the most thorough and realistic forecast, this report provides a twin-scenario analysis, including "steady state", emergence of new electric & hybrid aircraft technology. Companies are now unveiling new design plans for biofuel-powered hybrid plane for passenger and cargo transport. This is because bio fuel powered aircraft will reduce the cost it takes to operate aircraft, including fuel and asset costs.

In any given country, the armed forces are among the biggest consumers of fuel and other resources, and so have the greatest opportunity to readily reduce consumption by

a significant amount. For instance, the US Air Force is now using a 50/50 blend of regular jet fuel and camelina-based biofuel to power the F/A-18 Super Hornet multirole fighter jet, dubbed the 'Green Hornet'. This proves that while every single aircraft is not a Hybrid Aircraft there is potential to use bio fuels to power existing aircraft.

In this report we have classified electric & hybrid aircraft under 5 major groups, apart from regions. We will research these 5 major groups and also provide forecast figures from 2020 – 2028.

These major groups are:

1. Technology – The 4 major technologies discussed are:

Solar Powered Aircraft

Fuel Powered Aircraft

Electric Aircraft

Unmanned Aerial Vehicles

2. Component – The important components that we discuss in this report are:

Aircraft Battery

Aircraft Electric Motor

Power Cables

Solar Cells

Ultracapacitors

Fuel Cells

Microwave

3. Type – The 2 types of electric and hybrid aircraft on which we shed light are:

Ultralight Aircraft

Light Jet

4. Range – The 2 main range categories for electric and hybrid aircraft are:

Less than 500 kms

More than 500 kms

5. End-Users – There are 3 key users of electric and hybrid aircraft:

Commercial Aviation

Defense

Other Application

In particular, this report provides an in-depth analysis of the following:

Overview: Snapshot of the various electric & hybrid aircraft tech in the civilian and defense market during 2020-2028, including highlights of the demand drivers, trends and challenges. It also provides a snapshot of the spending with respect to regions as well as segments. It also sheds light on the emergence of new technologies

Market Dynamics: Insights into the technological developments in this market and a detailed analysis of the changing preferences of governments around the world. It also analyzes changing industry structure trends and the challenges faced by the industry participants.

Segment Analysis: Insights into the various Systems market from a segmental perspective and a detailed analysis of factors influencing the market for each segment.

Regional Review: Insights into modernization patterns and budgetary allocation for top

countries within a region.

Regional Analysis: Insights into the Systems market from a regional perspective and a detailed analysis of factors influencing the market for each region.

Trend Analysis: Key electric & hybrid aircraft system markets: Analysis of the key markets in each region, providing an analysis of the various Systems segments expected to be in demand in each region.

Key Program Analysis: Details of the top programs in each segment expected to be executed during the forecast period.

Competitive landscape Analysis: Analysis of competitive landscape of this industry. It provides an overview of key companies, together with insights such as key alliances, strategic initiatives and a brief financial analysis.

Reasons to buy

- Determine prospective investment areas based on a detailed trend analysis of the Global Electric & Hybrid Aircraft Market over the next eight years

- Gain in-depth understanding about the underlying factors driving demand for different systems segments in the top spending countries across the world and identify the opportunities offered by each of them

- Strengthen your understanding of the market in terms of demand drivers, industry trends, and the latest technological developments, among others

- Identify the major channels that are driving the global small sat business, providing a clear picture about future opportunities that can be tapped, resulting in revenue expansion

- Channelize resources by focusing on the ongoing programs that are being undertaken by the ministries of different countries within the small sat market

- Make correct business decisions based on thorough analysis of the total competitive landscape of the sector with detailed profiles of the top systems providers around the world which include information about their products, alliances, recent contract wins and financial analysis wherever available

Related studies:

Global Sustainable Aviation Fuels - Market and Technology Forecast to 2028

Global Commercial Aircraft Disassembly, Dismantling & Recycling Market
Forecast to 2027

Global Aerospace & Defense 3D Printing Market and Technology Forecast to
2026

Global Aerospace & Defense Composites Market and Technology Forecast to
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Global Commercial Avionics Market and Technology Forecast to 2026

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