Hybrid Aircraft Market by Aircraft Type (Regional Transport Aircraft, Business Jets, Light Aircraft, UAVs, AAM), Power Source (Fuel Hybrid, Hydrogen Hybrid), Lift Technology, Mode of Operation, Range, System and Region - Global Forecast to 2030

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Report description:

The hybrid aircraft market is projected to grow from USD 1.2 Billion in 2023 to USD 13.2 Billion by 2030, at a CAGR of 41.6% from 2023 to 2030. Various factors, such as the growing technological advancements in hybrid propulsion and need for sustainable development to drive the hybrid aircraft market. However, limited in weight and payload and regulatory approval obstacles involving hybrid aircraft are limiting the overall growth of the market.

"Fuel Hybrid: The largest share in power source segment in the hybrid aircraft market in 2023."

The fuel hybrid segment is projected to have the largest share in 2023. Fuel hybrid propulsion systems combine electric power and an internal combustion engine or a turbine. This configuration balances between electric efficiency and extended range capabilities. Batteries provide energy for propulsion during one or more phases of the flight. Fuel Hybrid propulsion systems with an electric motor and internal combustion engine help save fuel and reduce take-off noise and emission levels. Thus, the increasing use of fuel hybrid aircraft is driving the hybrid-electric aircraft market.

"Autonomous hybrid aircraft: The largest share in mode of operation segment in the hybrid aircraft market in 2023."

The autonomous hybrid aircraft from the mode of operation segment is projected to have the largest share in 2023. In the autonomous segment, hybrid aircraft such as eVTOLs, UAVs operate without direct human intervention, relying on advanced sensors, artificial intelligence, and sophisticated flight control systems to navigate and make decisions. Autonomous aircraft offer several notable advantages such as the potential to revolutionize the transportation industry by enabling on-demand and efficient aerial mobility without the need for human pilots. Autonomous systems growth is expected to leverage advanced algorithms to optimize flight paths, minimize congestion, and enhance safety through real-time situational awareness.

"VTOL: The second largest share in lift technology segment in the hybrid aircraft market in 2023."

The VTOL segment is projected to have the second-largest share in 2023. VTOL Hybrid aircraft in hybrid-electric aircraft market has experienced remarkable growth. Urban congestion and the need for faster, more flexible transportation solutions have driven investment and research into VTOL technology, making it a promising avenue for the future of aviation and mobility. Few examples of VTOL aircraft are helicopters, multirotor aircraft, and tiltrotor/tilt-wing aircraft. The growth of this segment is due to ongoing efforts to enhance efficiency, reduce emissions, and promote sustainability in urban air transportation.

"The Asia-Pacific region is estimated to have the second largest share in the hybrid aircraft market in 2023."
Asia-Pacific is estimated to account for the second-largest share in hybrid-electric aircraft market in 2023. The Asia-pacific region for this study comprises China, India, Japan, Australia, South Korea, and the Rest of Asia Pacific. The hybrid aircraft market in Asia Pacific has experienced a remarkable surge in recent years. The growth of the region is due to actively embracing developments in hybrid aircraft and hybrid UAM which is expected to revolutionize transportation within urban areas. Countries like Japan and the China are investing in the development of dedicated infrastructure and hybrid aircraft.

The break-up of the profiles of primary participants in the hybrid-electric aircraft market is as follows:
-□By Company Type: Tier 1 - 55%; Tier 2 - 25%; and Tier 3 - 20%
-□By Designation: C-Level Executives - 50%; Directors - 25%; and Others - 25%
-□By Region: North America - 32%, Europe - 32%, Asia Pacific - 16%, Latin America -10% Rest of the World - 10%.
Major Players in the hybrid-electric aircraft market are Textron Inc. (US), VoltAero (France), Electric Aviation Group (US), Ascendance Flight Technologies (France), XTI Aircraft (US) and Embraer (Brazil)among others.

Research Coverage
The market study covers the Hybrid Aircraft market across various segments and subsegments. It aims at estimating the size and growth potential of this market across different segments based on Power Source (Fuel Hybrid, Hydrogen Hybrid), Mode of Operation (Autonomous, Piloted), By Range (< 100 km, 101 km to 500km, > 501 km), By System (Batteries & Fuel Cells, Electric Motors, Generators/Engines, Aerostructures, Avionics, Software, Others), By Aircraft Type (Regional Transport Aircraft, Business Jets, Light And Ultralight Aircraft, Advanced Air Mobility, Unmanned Aerial Vehicles), By Lift Technology (CTOL, STOL, VTOL) and Region. This study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to their product and business offerings, recent developments undertaken by them, and key market strategies adopted by them.

Key benefits of buying this report:
This report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall hybrid-electric aircraft market and its subsegments. The report covers the entire ecosystem of the hybrid-electric aircraft industry and will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:
-□Market Penetration: Comprehensive information on hybrid aircraft market offered by the top players in the market.

-□Market Drivers: Increasing demand for green energy and noise free aircraft with alternate modes of transport, increasing demand for short haul range connectivity, technological convergence is driving factors for the hybrid-electric aircraft market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the hybrid aircraft market

-□Market Development: Comprehensive information about lucrative markets - the report analyses the hybrid aircraft market across

varied regions.

-Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the hybrid aircraft market

-Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players in the hybrid aircraft market

Table of Contents:

*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

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