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Advanced Air Mobility Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Advanced Air Mobility Market generated USD 11.5 billion in 2024 and is projected to grow at a CAGR of 20.6% between 2025 and 2034. As the world intensifies its efforts to reduce carbon emissions and combat climate change, the transportation sector is undergoing a transformative shift toward cleaner solutions. Advanced air mobility is emerging as a game-changer, offering sustainable air transport options that reduce traffic congestion, enhance transportation efficiency, and minimize environmental impacts. The increasing integration of electric propulsion systems, autonomous technologies, and innovative vehicle designs is accelerating the adoption of AAM solutions.

Governments and regulatory authorities across the globe are supporting these advancements through favorable policies and investments, enabling rapid certification and commercialization of AAM technologies. Furthermore, the growing interest from urban planners and transportation authorities in incorporating AAM systems into smart city frameworks is driving market growth. With the rise of urbanization and increasing demand for faster and more efficient travel solutions, AAM is expected to revolutionize regional and urban mobility by offering seamless, point-to-point transportation.

The piloted advanced air mobility segment, valued at USD 3.2 billion in 2024, is witnessing robust growth as it blends human expertise with technological innovations to deliver safe and reliable urban air transportation. Piloted AAM vehicles offer an added layer of safety by leveraging the skills of experienced pilots, ensuring smooth operations even in complex or densely populated environments. Additionally, the integration of existing aviation infrastructure and the implementation of favorable regulatory frameworks are expediting the certification process, paving the way for faster deployment and wider acceptance of these technologies. As the industry moves toward autonomous solutions, piloted AAM vehicles are serving as a bridge to build public trust

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and refine operational processes.

The AAM market is categorized by vehicle types, including electric vertical take-off and landing (eVTOL) aircraft, short take-off and landing (STOL) aircraft, and conventional fixed-wing aircraft. In 2024, the eVTOL segment accounted for 50.4% of the market share, driven by the growing adoption of electric and hybrid propulsion systems. eVTOL aircraft are gaining traction due to their ability to meet passenger transportation requirements while adhering to stringent safety and operational standards. The development of eVTOL technology is expected to play a pivotal role in shaping the future of advanced air mobility, as these vehicles offer the potential for scalable, cost-effective, and environmentally sustainable transportation solutions.

The U.S. advanced air mobility market, valued at USD 8.3 billion in 2024, is positioned as a global leader fueled by a strong technological innovation ecosystem and the presence of prominent aerospace companies. With significant investments in research and development and a well-established infrastructure for testing and deploying new technologies, the U.S. is driving the advancement and adoption of AAM solutions. The country’s proactive regulatory environment, combined with continuous collaboration between public and private sector stakeholders, is accelerating the commercialization of advanced air mobility technologies and positioning the U.S. as a frontrunner in the global AAM landscape.

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Contents

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