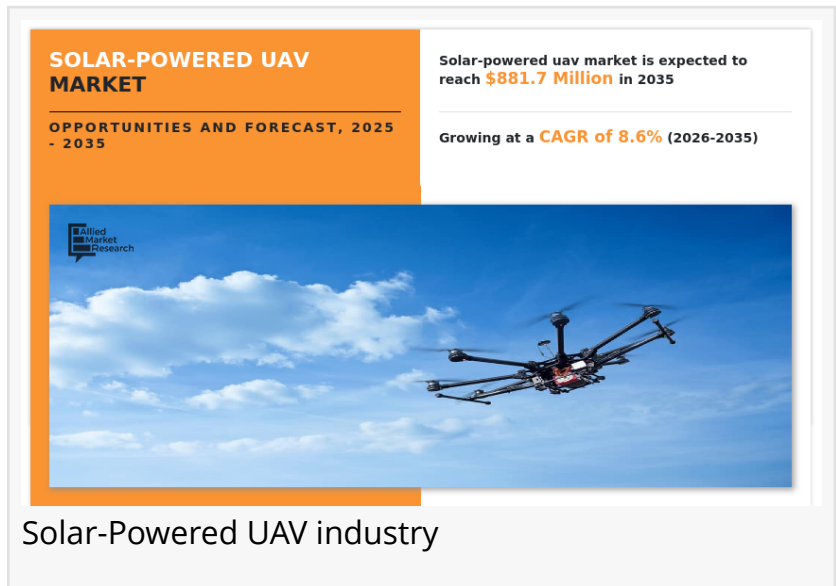


Solar-Powered UAV Market Size and Forecast | NewSpace, QinetiQ, BAE Systems, Xsun, Uav-instruments

Rise in development of solar-powered drones for defense application and increase in demand for drone services have boosted the growth of the global market.

WILMINGTON, DE, UNITED STATES, August 20, 2025 /EINPresswire.com/ -- [Solar-powered UAV market size](#) is valued at \$378.2 million in 2025, and is estimated to reach \$881.7 million by 2035, witnessing with a CAGR of 8.6% from 2026 to 2035.



The report provides an in-depth analysis of top segments, changing market trends, value chain, key investment pockets, competitive scenario, and regional landscape. The report is an essential and helpful source of information for leading market players, investors, new entrants, and stakeholders in formulating new strategies for the future and taking steps to strengthen their position in the market.

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The key factors driving the global market for solar-powered UAV are rise in awareness of solar energy's potential and favorable attempts to promote sustainable energy. Moreover, the demand for these unmanned aerial vehicles is expected to increase owing to the growth in use of solar-powered drones for various dependability and monitoring projects throughout the globe. In addition, surge in awareness of the advantages of solar-powered drones and expanding demand for drones in both commercial and military uses drive the growth of the market. Furthermore, the introduction of autonomous drones has transformed company operations and created new market potential for solar-powered UAVs.

There are prominent key factors that drive the growth of the solar-powered UAV market, such as

enhanced endurance limit as compared to conventional drones, applications in law enforcement activities, and increase in usage of renewable energy sources. Moreover, the market economy is also responsible for the growth of the market. Countries such as China, India, Brazil, and South Africa are developing economies. Thus, the increase in use of drones for different applications such as commercial, industrial, manufacturing, agricultural among others in these countries is expected to provide lucrative opportunities for the growth of the market.

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The global solar-powered UAV market report offers detailed segmentation of the market based on application, mode of operation, type, range, and region. The report provides an analysis of each segment and sub-segment with the help of tables and figures. This analysis helps investors, market players, and new entrants in determining the sub-segments to be tapped on to achieve growth in the coming years.

Based on region, Asia-Pacific is expected to hold for the highest share in 2025, contributing to around one-third of the total market share, and is projected to continue its leadership status by 2035. In addition, the region is projected to portray the fastest CAGR of 9.3% during the forecast period. The research also analyzes regions including Europe and LAMEA.

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Leading players of the global solar-powered UAV market analyzed in the research include AeroVironment Inc., Autonomous Systems Lab (Atlantik-Solar), Aurora Flight Sciences, Avy, BAE Systems Plc., Chinese Academy of Aerospace Aerodynamics (CAAA), Elektra Solar GmbH, Eos Technologie, Kea Aerospace, Korea Aerospace Research Institute, NEWSPACE RESEARCH & TECHNOLOGIES PVT LTD, QinetiQ, Silent Falcon UAS Technologies, Skydweller, Sunbirds SAS, UAV Instruments S.L, and Xsun.

The report analyzes these key players in the global [solar-powered UAV industry](#). These players have adopted various strategies such as new product launches, expansion, partnerships, and others to increase their market penetration and strengthen their position in the industry. The report is helpful in determining the business performance, operating segments, product portfolio, and developments of every market player.

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