

# Global Solar-powered UAV Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Solar-powered UAV market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Unmanned aerial vehicles (UAVs) or drones are autonomous aircraft, which are remotely controlled from the ground or through onboard computers. Solar-powered UAV platforms use photovoltaic panels to absorb energy from the sun and convert it into electrical energy to thrust the engines.

Solar powered UAVs are primarily adopted by militaries, defense agencies, paramilitary forces, and other national security agencies for intelligence, surveillance, and reconnaissance (ISR) missions as they can perform activities beyond the scope of human ability. The increasing investments from government agencies in R&D activities will positively impact the growth of the solar-powered UAV market in the defense segment.

The Global Info Research report includes an overview of the development of the Solar-powered UAV industry chain, the market status of Commercial (Fixed-wing UAV, Multiple-rotor UAV), Defense and Military (Fixed-wing UAV, Multiple-rotor UAV), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Solar-powered UAV.

Regionally, the report analyzes the Solar-powered UAV markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global

Solar-powered UAV market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Solar-powered UAV market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Solar-powered UAV industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Fixed-wing UAV, Multiple-rotor UAV).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Solar-powered UAV market.

**Regional Analysis:** The report involves examining the Solar-powered UAV market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Solar-powered UAV market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Solar-powered UAV:

**Company Analysis:** Report covers individual Solar-powered UAV manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and

attitudes towards Solar-powered UAV This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Commercial, Defense and Military).

**Technology Analysis:** Report covers specific technologies relevant to Solar-powered UAV. It assesses the current state, advancements, and potential future developments in Solar-powered UAV areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Solar-powered UAV market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Solar-powered UAV market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Fixed-wing UAV

Multiple-rotor UAV

Other

### Market segment by Application

Commercial

Defense and Military

Other

## Major players covered

Boeing

DJI

Lockheed Martin

Thales Group

Airbus

AeroVironment

Barnard Microsystems

Silent Falcon UAS

Sunlight Photonics

## Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Solar-powered UAV product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solar-powered UAV, with price, sales, revenue and global market share of Solar-powered UAV from 2019 to 2024.

Chapter 3, the Solar-powered UAV competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solar-powered UAV breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Solar-powered UAV market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Solar-powered UAV.

Chapter 14 and 15, to describe Solar-powered UAV sales channel, distributors, customers, research findings and conclusion.

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