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Global Renewable Drones Market Size study & Forecast, by Drone Type (Multirotor and Fixed Wing), by Solution (End-to-End Solution and Point Solution), by End User (Solar (Photovoltaics and Concentrated Solar Power) and Wind), and Regional Forecasts 2025-2035

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Abstracts

The Global Renewable Drones Market is valued approximately at USD 0.1 billion in 2024 and is anticipated to grow at an astonishing CAGR of over 27.10% during the forecast period 2025-2035. Renewable drones, employed primarily in solar and wind energy sectors, are revolutionizing the maintenance, inspection, and monitoring paradigms of renewable infrastructure through precision, automation, and minimal human intervention. These unmanned aerial vehicles are designed to deliver high-definition visual data, thermal imaging, and real-time analytics that streamline operations and enhance productivity across renewable energy sites. With the relentless pursuit of sustainable power sources, especially in solar photovoltaics, concentrated solar power, and onshore and offshore wind farms, the deployment of drones is increasingly being institutionalized as a critical component of renewable energy asset management.

The sharp incline in drone utilization across the energy sector stems from a confluence of factors, such as accelerating renewable installations, aging infrastructure in need of rapid diagnostics, and stringent environmental compliance norms. According to the International Energy Agency (IEA), solar and wind power are projected to account for over 70% of new electricity generation capacity additions globally by 2030. Drones equipped with LiDAR, infrared cameras, and AI-powered analytics are expediting asset evaluations that would traditionally require extensive time, labor, and cost. For instance,

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drone-enabled inspection of wind turbine blades mitigates the need for rope-access technicians and reduces downtime significantly. As digital transformation and autonomous technologies converge with decarbonization strategies, the renewable drones market is poised to disrupt legacy methods while opening pathways for predictive maintenance and performance optimization.

Regionally, North America currently commands a formidable share of the market, bolstered by its expansive wind and solar infrastructure, coupled with early adoption of drone technologies and regulatory support for UAV operations in energy applications. The United States, in particular, showcases a mature landscape where drone service providers are collaborating with renewable asset operators for seamless integration into routine O&M activities. Meanwhile, Europe, with its robust environmental regulations and push toward net-zero targets, is rapidly deploying drones across offshore wind farms in the North Sea and solar parks across Spain, Germany, and Italy. Asia Pacific is emerging as the fastest-growing market, with China and India leading large-scale solar deployments, where drones are indispensable in asset tracking, thermal imaging, and fault detection across sprawling installations. This growth trajectory is further catalyzed by supportive government initiatives, lowering drone costs, and increasing digital literacy among energy stakeholders.

Major market player included in this report are:

DJI

Terra Drone Corporation

Parrot Drones SAS

DroneDeploy

PrecisionHawk Inc.

SZ DJI Technology Co., Ltd.

Airpix

ABJ Drones

Sharper Shape Inc.

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Skylark Drones

SkySpecs

Cyberhawk Innovations Ltd.

Azur Drones SAS

Measure

HUVRdata Inc.

Global Renewable Drones Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for

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stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Drone Type:

- Multirotor
- Fixed Wing

By Solution:

- End-to-End Solution
- Point Solution

By End User:

- Solar
  - Photovoltaics
  - Concentrated Solar Power
- Wind

By Region:

North America

- U.S.
- Canada

Europe

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- UK
- Germany
- France
- Spain
- Italy
- ROE

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

Latin America

- Brazil
- Mexico

Middle East & Africa

- UAE

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Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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