

Global Drone Battery Market: Analysis By Drone Type (Mini Quad, and Micro Quad), By Battery Type (Lithium Polymer, Nickel Cadmium, and Nickel Metal Hydride), By Battery Capacity (Below 3000 mAh, 3000-5000 mAh, 5000-10000 mAh, and Above 10000 mAh), By End User (Agroforestry, Infrastructure Monitoring, Energy and Water services, Construction, Mineral Extraction, and Others) By Region Size and Trends with Impact of COVID-19 and Forecast up to 2030

February 2025



Global Drone Battery Market: Coverage

Executive Summary and Scope

Introduction/Market Overview

Global Market Analysis

Regional Market Analysis

Impact of COVID-19

Dynamics

Competitive Landscape

Company Profiling

Global Drone Battery Market: Coverage

Scope of the Report

Attributes	Details
Title	Global Drone Battery Market: Analysis By Drone Type (Mini Quad, and Micro Quad), By Battery Type (Lithium Polymer, Nickel Cadmium, and Nickel Metal Hydride), By Battery Capacity (Below 3000 mAh, 3000-5000 mAh, 5000-10000 mAh, and Above 10000 mAh), By End User (Agroforestry, Infrastructure Monitoring, Energy and Water services, Construction, Mineral Extraction, and Others) By Region Size and Trends with Impact of COVID-19 and Forecast up to 2030
Coverage	Global and Regional
Regional Coverage	Asia Pacific (China, Japan, South Korea, India, and the Rest of Asia Pacific), North America (The US, Canada, and Mexico), Europe (France, UK, Germany, Italy, and Rest of Europe), Latin America, and Middle East & Africa
Market Influencing Variables	Growth Drivers, Challenges, Market Trends
Forecast Period of Market	2025-2030
Competition in the Market	Fragmented
Key Players	Sony Corporation, SZ DJI Technology Co., Ltd., Autel Robotics, Shenzhen Grepow Battery Co., Ltd., MaxAmps, Tuthill Corporation (EaglePicher Technologies), RRC Power Solutions, Epsilon, Denchi Power Ltd., MMC UAV, DNK Power, and Vision Aerial.

Global Drone Battery Market: Coverage

Executive Summary

Drone batteries, particularly, lithium and nickel-based, are critical to drone performance, meeting the high energy demands of varied and advanced drone uses. Their market demand has soared alongside the rise in drone applications, fueled by advancements in technology, a push for longer flight times, and a shift towards renewable energy. As integral components in a broadening range of drone functions, these batteries' ongoing enhancement remains key to the drone sector's future. The global drone battery market in 2024 stood at US\$1.39 billion, and is likely to reach US\$3.56 billion by 2030.

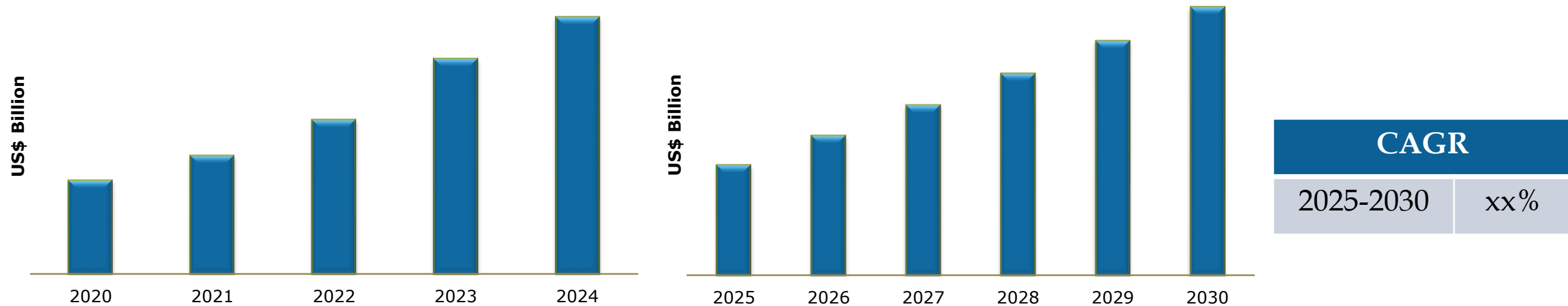
The drone battery market can be segmented on the basis of Drone Type (Mini Quad, and Micro Quad), Battery Type (Lithium Polymer, Nickel Cadmium, and Nickel Metal Hydride), Battery Capacity (Below 3000 mAh, 3000-5000 mAh, 5000-10000 mAh, and Above 10000 mAh), and End User (Agroforestry, Infrastructure Monitoring, Energy and Water services, Construction, Mineral Extraction, and Others). On the basis of battery type, in 2024, the Lithium Polymer segment holds the largest market share due to its superior energy density and flexibility, which significantly boost drone performance.

The global drone battery market, amidst the COVID-19 pandemic, faced significant upheavals, including severe supply chain interruptions and economic constraints. The industry, vital for pandemic response efforts, struggled with manufacturing slowdowns and constrained fiscal resources, underlining the need for resilient supply networks. While recreational drone use dipped, the crisis highlighted the potential of drones in public health and the urgency for clear operational regulations, sparking demand for reliable drone batteries. Consequently, the market is navigating a complex post-COVID landscape of challenges and opportunities, with prospects for growth anchored on strategic adaptations and innovation.

The global drone battery market has increased in 2024 and projections are made that the market would rise in the next five years i.e. 2025-2030 tremendously. Surging utilization of drones across diverse sectors for improved efficiency and data accuracy is driving the demand for robust, enduring drone batteries critical to their operation. Further, the market is expected to grow owing to increased adoption in the construction sector, increased use in military and defense, technological advancements in battery technology, regulatory support and standardization, growth in consumer drones, etc. in recent years, yet the market faces some challenges such as surge in demand for alternative fuel solutions, rising adoption of super-capacitors as energy storage solutions, etc.

Drone Battery Market: Global Analysis

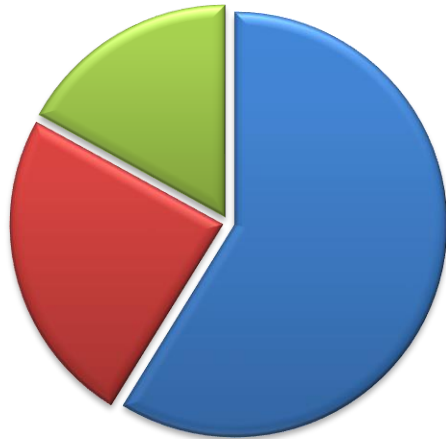
Global Drone Battery Market by Value



The global drone battery market valued at US\$... billion in 2024, increased as compared to US\$... billion in 2023. The market exhibits a surge at a year-on-year rate of ...% during 2023 and 2024. Global drone battery market is anticipated to reach up to US\$... billion by 2030, at a CAGR of%, from US\$... billion in 2025.

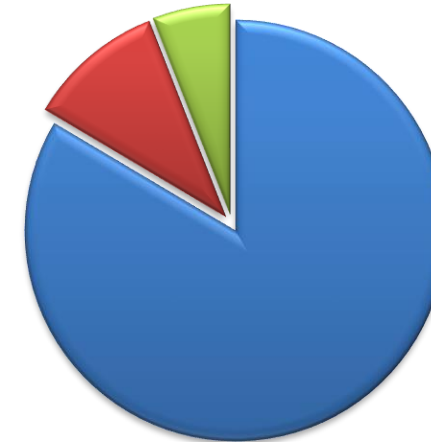
Drone Battery Market: Global Analysis

Global Drone Battery Market by Drone Type; 2024



Drone Type	Share
Mini Quad	xx%
Micro Quad	xx%
Others	xx%

Global Drone Battery Market by Battery Type; 2024



Battery Type	Share
Lithium Polymer	xx%
Nickel Cadmium	xx%
Nickel Metal Hydride	xx%

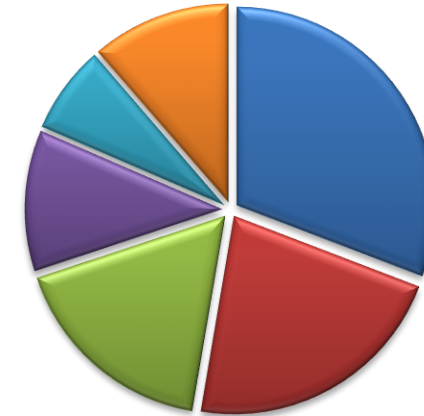
Drone Battery Market: Global Analysis

Global Drone Battery Market by Battery Capacity; 2024



Battery Capacity	Share
Below 3000 mAh	xx%
3000 - 5000 mAh	xx%
5000 - 10000 mAh	xx%
Above 10,000 mAh	xx%

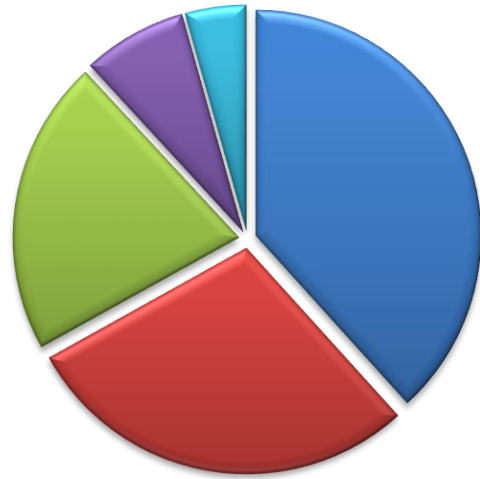
Global Drone Battery Market by End User; 2024



End User	Share
Agroforestry	xx%
Infrastructure Monitoring	xx%
Energy and Water services	xx%
Construction	xx%
Mineral Extraction	xx%
Others	xx%

Drone Battery Market: Global Analysis

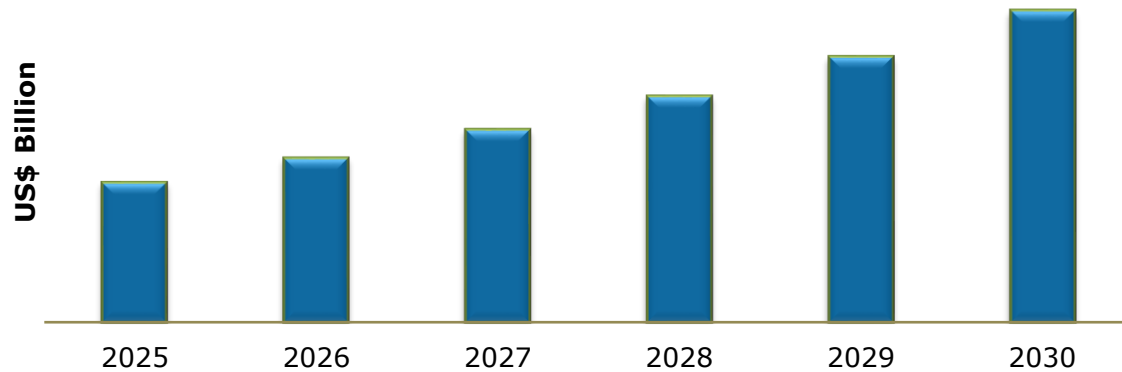
Global Drone Battery Market by Region; 2024



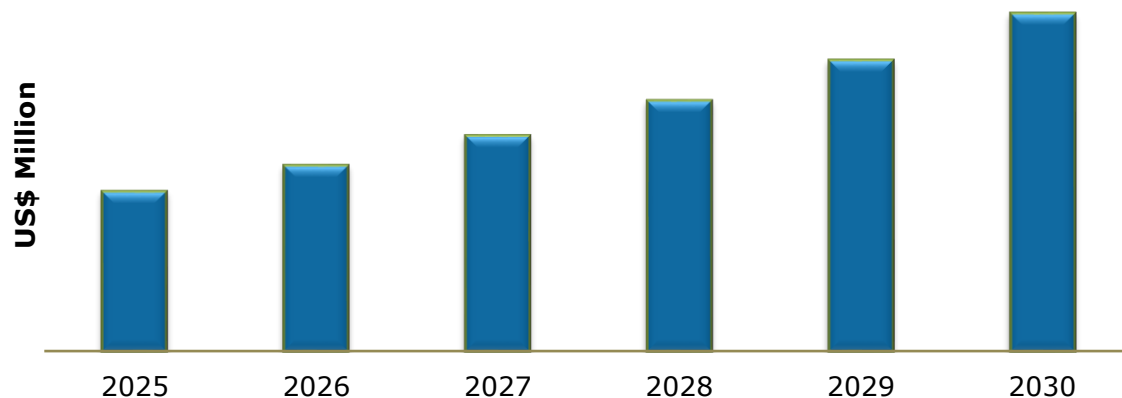
Region	Share
Asia Pacific	xx%
North America	xx%
Europe	xx%
Latin America	xx%
Middle East & Africa	xx%

Global Drone Battery Market: Type Analysis

Global Mini Quad Drone Battery Market by Value



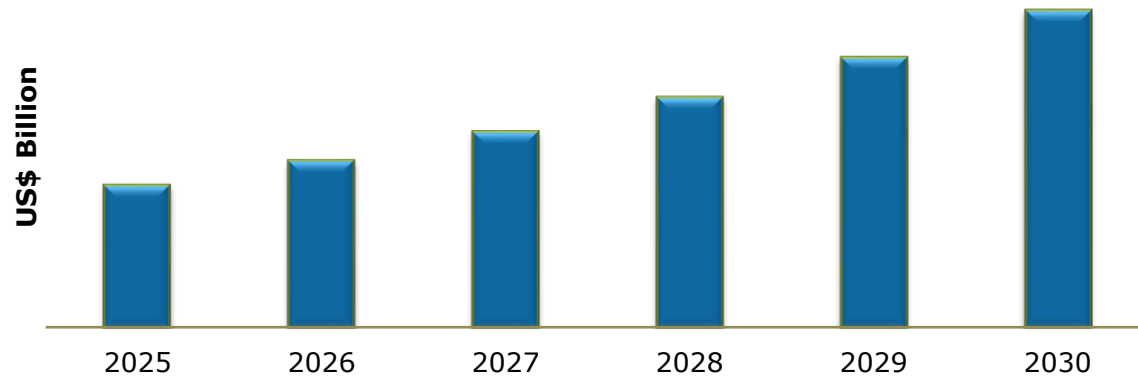
Global Micro Quad Drone Battery Market by Value



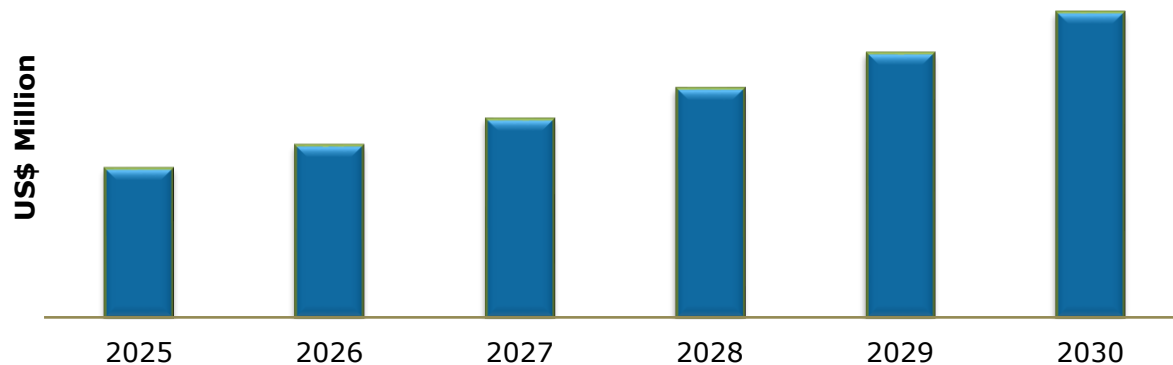
Drone Type	CAGR (2025-2030)
Mini Quad	xx%
Micro Quad	xx%
Others	xx%

Global Drone Battery Market: Battery Type Analysis

Global Lithium Polymer Drone Battery Market by Value



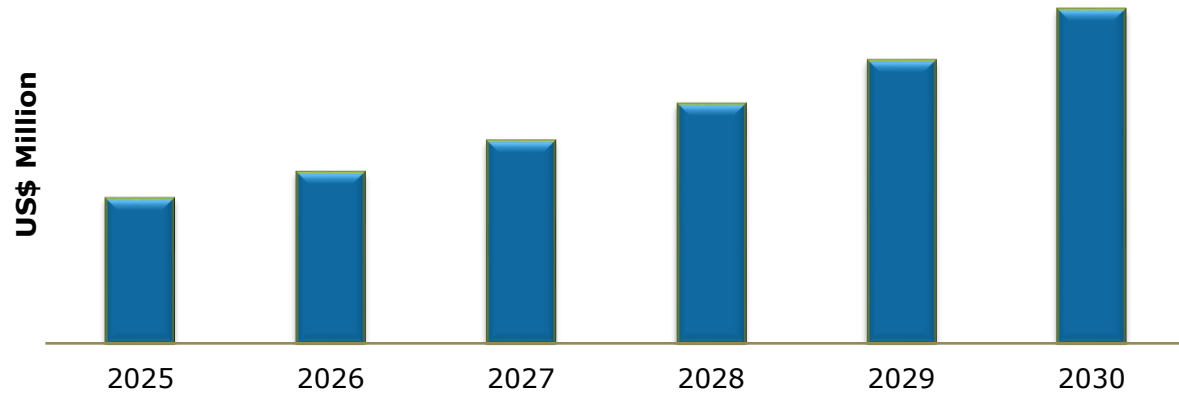
Global Nickel Cadmium Drone Battery Market by Value



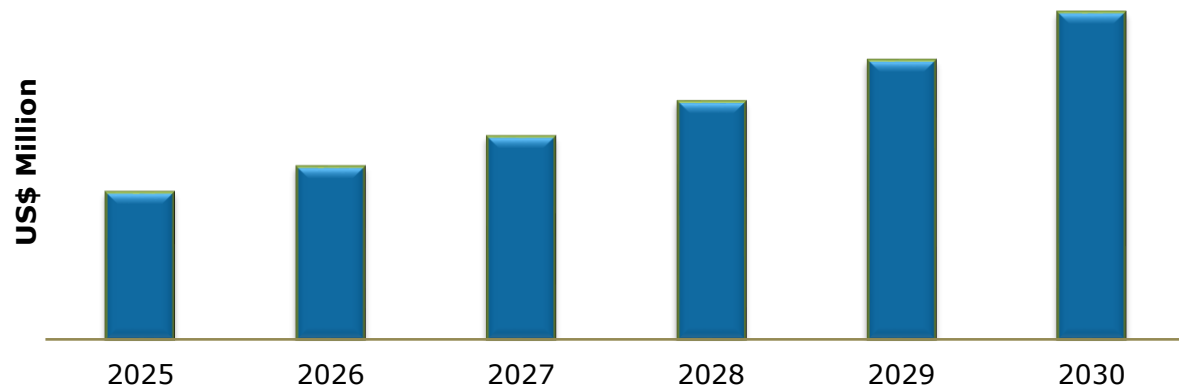
Battery Type	CAGR
	(2025-2030)
Lithium Polymer	xx%
Nickel Cadmium	xx%
Nickel Metal Hydride	xx%

Global Drone Battery Market: Battery Capacity Analysis

Global Below 3000 mAh Drone Battery Market by Value



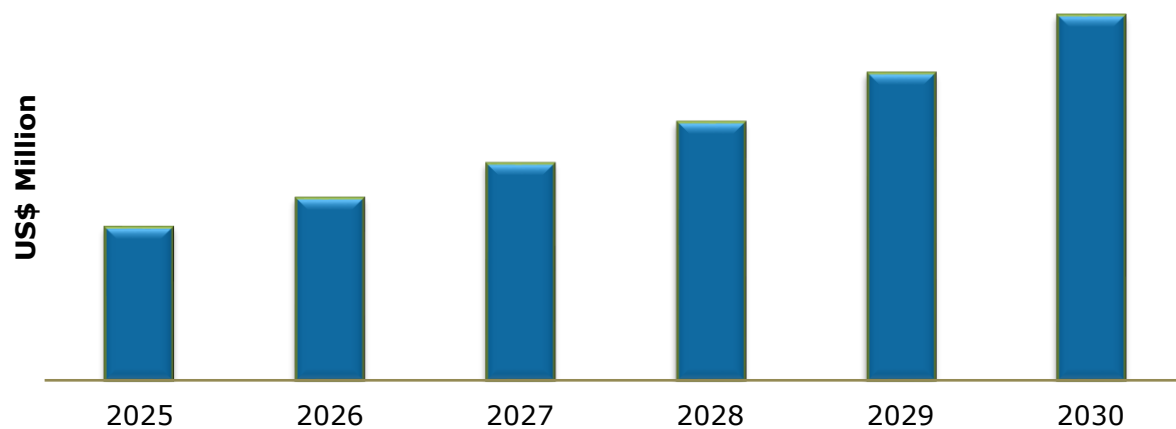
Global 3000 - 5000 mAh Drone Battery Market by Value



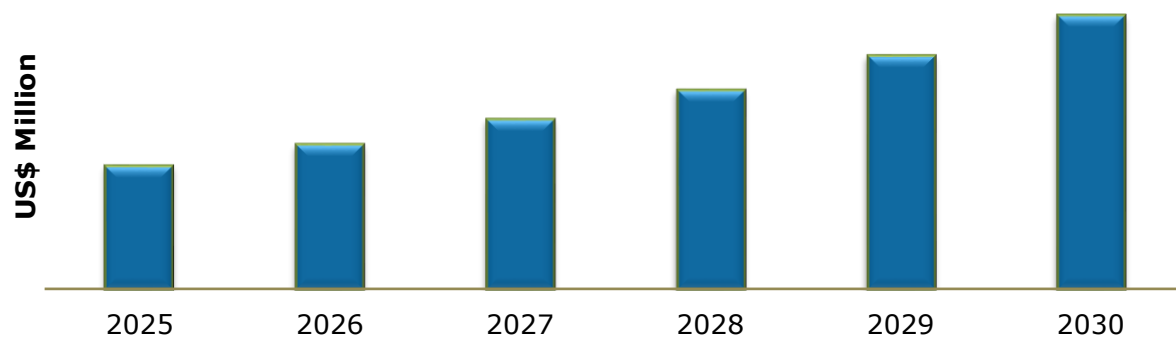
Battery Capacity	CAGR
	(2025-2030)
Below 3000 mAh	xx%
3000 - 5000 mAh	xx%
5000 - 10000 mAh	xx%
Above 10,000 mAh	xx%

Global Drone Battery Market: End User Analysis

Global Agroforestry Drone Battery Market by Value



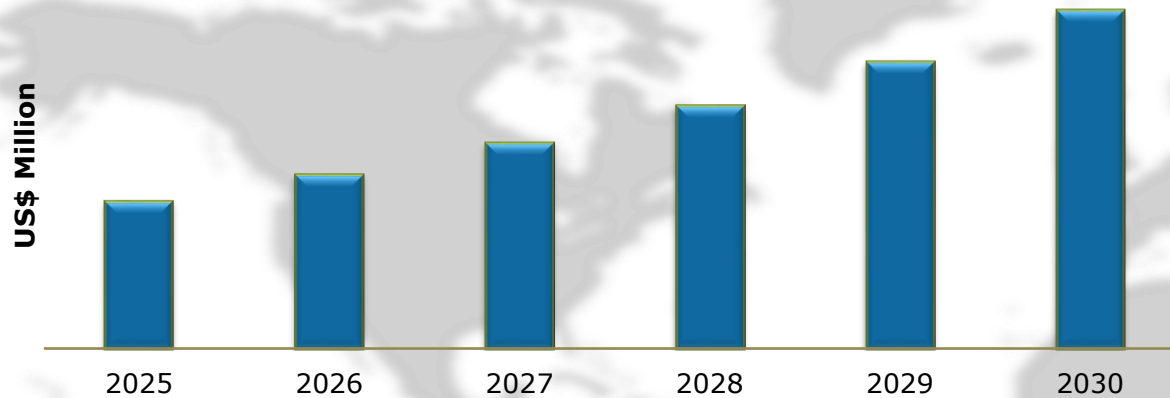
Global Infrastructure Monitoring Drone Battery Market by Value



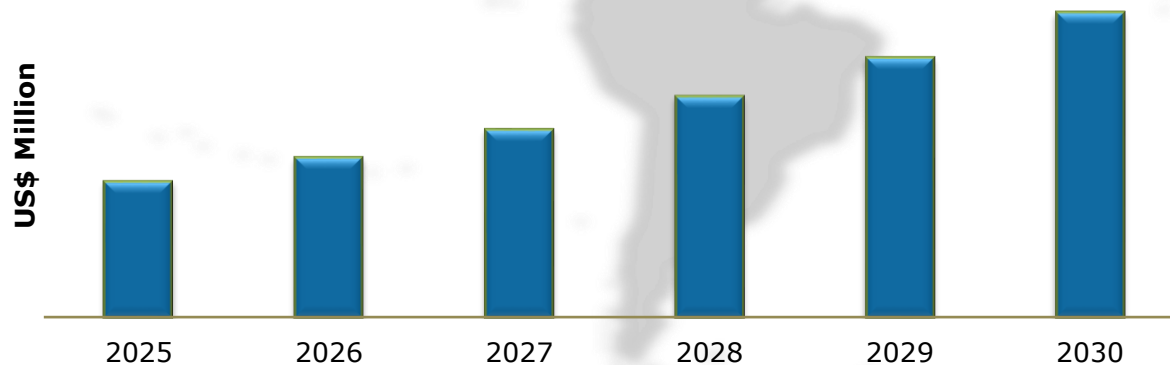
End User	CAGR
	(2025-2030)
Agroforestry	xx%
Infrastructure Monitoring	xx%
Energy and Water services	xx%
Construction	xx%
Mineral Extraction	xx%
Others	xx%

Drone Battery Market: Regional Analysis

Asia Pacific Drone Battery Market by Value



North America Drone Battery Market by Value



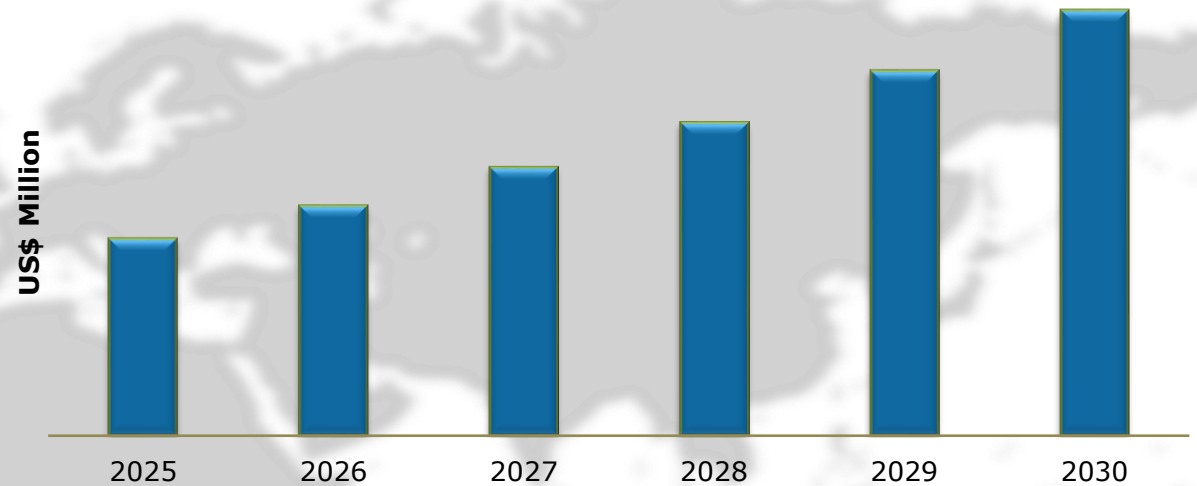
Region	CAGR
	(2025-2030)
Asia Pacific	xx%
North America	xx%
Europe	xx%
Latin America	xx%
Middle East & Africa	xx%

Asia Pacific Drone Battery Market: Analysis

Asia Pacific Drone Battery Market by Region; 2024



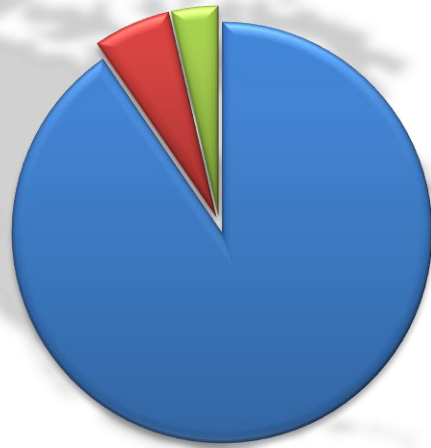
China Drone Battery Market by Value



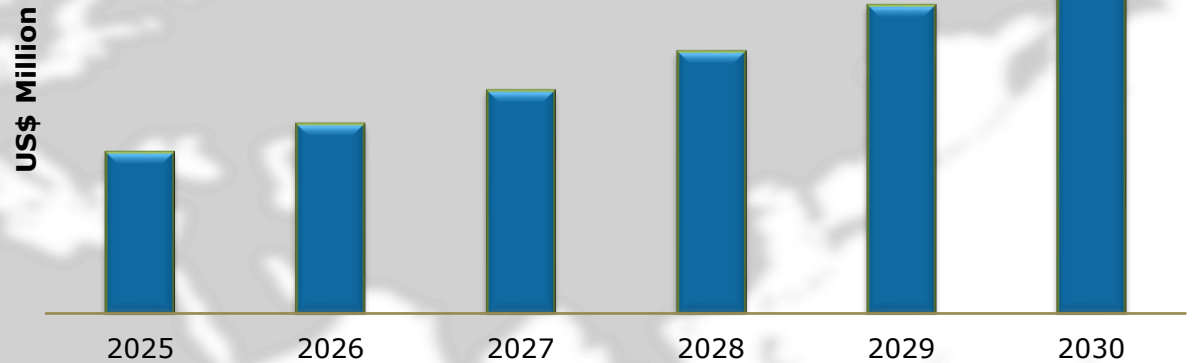
Region	Share	CAGR (2025-2030)
China	xx%	xx%
Japan	xx%	xx%
South Korea	xx%	xx%
India	xx%	xx%
Rest of Asia Pacific	xx%	xx%

North America Drone Battery Market: Analysis

North America Drone Battery Market by Region; 2024



The US Drone Battery Market by Value



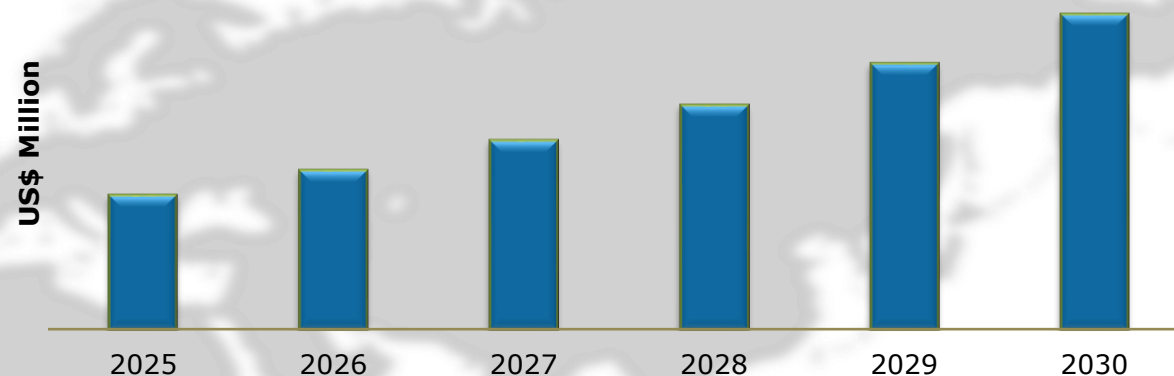
Region	Share	CAGR
		(2025-2030)
The US	xx%	xx%
Canada	xx%	xx%
Mexico	xx%	xx%

Europe Drone Battery Market: Analysis

Europe Drone Battery Market by Region; 2024



France Drone Battery Market by Value



Region	Share	CAGR
		(2025-2030)
France	xx%	xx%
UK	xx%	xx%
Germany	xx%	xx%
Italy	xx%	xx%
Rest of Europe	xx%	xx%

Global Drone Battery Market: Dynamics



Growth Driver

- Increased Adoption in the Construction Sector
- Increased Use in Military and Defense



Challenges

- Surge In Demand For Alternative Fuel Solutions
- Rising Adoption of Super-capacitors As Energy Storage Solutions



Market Trends

- Advent Of Next-generation And Smart Battery Technologies
- Expansion in Drone Deliveries

Global Drone Battery Market: Competitive Landscape

Players Profiled

- Sony Corporation
- Panasonic Corporation
- SZ DJI Technology Co., Ltd.
- Autel Robotics
- Shenzhen Grepow Battery Co., Ltd.
- MaxAmps
- Tuthill Corporation (EaglePicher Technologies)
- RRC Power Solutions
- Epsilor
- Denchi Power Ltd.
- LG Chem (LG Energy Solutions)
- DNK Power
- Vision Aerial