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Global Battery Market for IoT Size Study & Forecast, by Battery Type (Lithium-Ion, Lithium-Sulfur, Solid-State, Others), Rechargeability (Primary Batteries, Secondary Batteries), and Application (Consumer Electronics, Healthcare, Automotive, Industrial, Retail, BFSI, Agriculture, Others) and Regional Forecasts 2025–2035

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Abstracts

The Global Battery Market for IoT is valued approximately at USD 11.55 billion in 2024 and is projected to grow at a CAGR of 9.64% during the forecast period 2025–2035. Batteries are the lifeblood of the Internet of Things (IoT) ecosystem, powering a vast array of connected devices across industrial, consumer, healthcare, and agricultural applications. They serve as indispensable energy sources that ensure continuous operation of sensors, wearable devices, smart meters, and automotive telematics modules. The escalating deployment of IoT devices worldwide, coupled with advancements in low-power electronics and wireless connectivity, has substantially intensified the demand for high-performance, long-life batteries. Furthermore, innovations in energy density, rechargeability, and sustainability are enabling manufacturers to enhance battery efficiency while meeting stringent environmental standards.

The rapid proliferation of IoT devices across verticals such as healthcare, automotive, and industrial automation is driving exponential growth in battery demand. For instance, wearable healthcare monitors, industrial sensors, and smart retail systems require compact, reliable, and durable power sources capable of sustaining continuous operation under diverse environmental conditions. According to industry reports, global IoT device connections surpassed 14 billion in 2023 and are expected to grow

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significantly by 2035, highlighting the critical role of batteries in supporting this expansion. At the same time, emerging technologies such as solid-state batteries and lithium-sulfur chemistry offer promising avenues for enhanced energy density, safety, and operational longevity, which further propels the market. Nevertheless, challenges such as high production costs, safety considerations, and recycling complexities remain pivotal factors influencing adoption.

The detailed segments and sub-segments included in the report are:

By Battery Type:

Lithium-Ion

Lithium-Sulfur

Solid-State

Others

By Rechargeability:

Primary Batteries

Secondary Batteries

By Applications:

Consumer Electronics

Healthcare

Automotive

Industrial

Retail

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BFSI

Agriculture

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Italy

Spain

Rest of Europe

Asia Pacific

China

Japan

South Korea

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India

Taiwan

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Among the various battery types, Lithium-Ion batteries are expected to dominate the market due to their high energy density, extended lifecycle, and widespread compatibility with IoT devices. The increasing integration of Lithium-Ion batteries in consumer electronics, automotive telematics, and industrial IoT sensors ensures stable growth in demand. While Lithium-Ion remains the market leader in revenue and adoption, solid-state and lithium-sulfur batteries are emerging as attractive alternatives, offering superior safety, energy density, and potential for miniaturization in next-generation IoT devices.

When segmented by rechargeability, secondary (rechargeable) batteries currently lead the revenue contribution owing to their cost-effectiveness, longer lifespan, and suitability for high-usage IoT applications. Secondary batteries provide significant advantages for industrial sensors, smart meters, and wearable devices, where frequent battery replacement is impractical. Meanwhile, primary batteries continue to hold relevance in

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low-power, infrequent-use IoT applications, such as remote sensors and low-maintenance agricultural monitoring systems. This segmentation indicates a nuanced market dynamic: rechargeable batteries dominate in terms of sustained adoption, while primary batteries remain indispensable for specific use cases.

The key regions considered for the Global Battery Market for IoT study include Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa. North America led the market in 2025 due to its mature IoT ecosystem, advanced R&D capabilities, and early adoption of smart technologies across industrial and consumer sectors. Asia Pacific is projected to witness the fastest growth over the forecast period, driven by rapidly expanding IoT deployments in China, India, Japan, and South Korea, coupled with robust government initiatives promoting smart infrastructure, industrial automation, and consumer electronics adoption. Europe maintains a stable growth trajectory, bolstered by energy-efficient initiatives and widespread adoption of smart devices, while Latin America and the Middle East & Africa are gradually expanding their IoT ecosystems, creating new opportunities for battery manufacturers.

Major market players included in this report are:

Panasonic Corporation

LG Chem Ltd.

Samsung SDI Co., Ltd.

Sony Corporation

BYD Company Limited

Contemporary Amperex Technology Co. Ltd. (CATL)

Toshiba Corporation

Hitachi Chemical Company

EVE Energy Co., Ltd.

Envision AESC

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VARTA AG

Saft Groupe S.A.

Johnson Controls International plc

Exide Industries Limited

Boston Power, Inc.

Global Battery Market for IoT 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 to 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 and 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 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:

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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 the 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 the competitive structure of the market.

Demand side and supply side analysis of the market.

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