

# Global Battery Passport Market Size Study & Forecast, by Component (Software, Hardware, Services), by Application (Electric Vehicles, Consumer Electronics, Energy Storage Systems) and Regional Forecasts 2022-2035

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## Abstracts

The Global Battery Passport Market is valued at approximately USD 4.02 billion in 2024 and is projected to accelerate at a striking CAGR of 35.70% over the forecast period from 2025 to 2035, with historical data anchored in 2023 and 2024 and 2024 serving as the base year for estimation. A battery passport can be understood as a digital record that travels with a battery across its lifecycle, capturing critical information related to origin, composition, carbon footprint, performance, and end-of-life handling. As sustainability, transparency, and traceability are being pushed to the top of corporate and regulatory agendas, battery passports are rapidly being taken up as a foundational tool to bring structure, accountability, and intelligence into complex battery value chains.

Market momentum is being powered by the explosive growth of electric mobility, large-scale energy storage deployments, and tightening environmental regulations, particularly across Europe and parts of Asia Pacific. Policymakers and OEMs alike are leaning into battery passports to comply with circular economy mandates, reduce supply chain risk, and build consumer trust. At the same time, advancements in digital technologies such as blockchain, IoT, and AI-driven analytics are being layered into passport platforms, allowing stakeholders to track batteries in near real time and unlock actionable insights. Despite this strong tailwind, challenges related to data standardization, cross-border interoperability, and the cost of implementation may temper adoption in emerging markets during the 2025–2035 period.

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

*Global Battery Passport Market Size Study & Forecast, by Component (Software, Hardware, Services), by Applicat...*

**By Component:**

Software

Hardware

Services

**By Technology:**

Blockchain

Cloud

IoT

AI &amp; Analytics

Others

**By Application:**

Electric Vehicles

Consumer Electronics

Industrial Batteries

Energy Storage Systems

Others

**By Region:**

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Electric vehicles are expected to dominate the Global Battery Passport Market over the forecast period, accounting for the largest share as EV manufacturers and regulators push hard to bring transparency and sustainability into battery sourcing and lifecycle management. With EV batteries representing high-value, high-risk assets, battery passports are increasingly being worked into OEM strategies to track raw materials, ensure regulatory compliance, and support second-life and recycling initiatives. While applications in energy storage systems and industrial batteries are gaining momentum, electric vehicles remain the primary demand driver shaping the market's trajectory.

From a revenue perspective, software components currently lead the market, underpinned by the rapid rollout of digital platforms that aggregate, analyze, and visualize battery data across global supply chains. Software-centric solutions are being favored due to their scalability, ease of integration, and ability to evolve alongside regulatory frameworks. Services are emerging as a fast-growing revenue stream, as enterprises seek consulting, integration, and lifecycle management support to roll out battery passport systems effectively across multi-stakeholder ecosystems.

Regionally, Europe stands at the forefront of the Global Battery Passport Market, driven by stringent EU regulations, aggressive decarbonization targets, and early policy mandates around battery transparency and circularity. North America follows, supported by expanding EV production, corporate sustainability commitments, and investments in advanced digital infrastructure. Asia Pacific is anticipated to witness the fastest growth during the forecast period, as battery manufacturing powerhouses such as China, Japan, and South Korea scale up exports and increasingly align with global traceability and sustainability standards.

**Major market players included in this report are:**

SAP SE

IBM Corporation

CATL

LG Energy Solution

Panasonic Holdings Corporation

Samsung SDI Co., Ltd.

Northvolt AB

Siemens AG

BASF SE

Accenture plc

Everledger Ltd.

Circular Ltd.

Umicore SA

Deloitte Touche Tohmatsu Limited

PwC

**Global Battery Passport 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 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 values for the coming years, grounded in historical data from 2023 and 2024 with 2024 as the analytical base. The report blends qualitative insights with quantitative analysis to unpack the driving forces, structural challenges, and emerging opportunities that will define the future of the market. It further delivers a detailed examination of competitive positioning, strategic initiatives, and product portfolios of key players operating across the global battery passport ecosystem.

### **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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