

Global Quantum Battery Technology Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Quantum Battery Technology market size is expected to reach \$ 85.83 million by 2032, rising at a market growth of 23.9% CAGR during the forecast period (2026-2032).

Quantum battery technology refers to an emerging class of energy-storage and energy-management devices that use quantum-mechanical effects to absorb, store, retain and release energy. The scope of this study focuses on device concepts, prototype systems, enabling materials and research platforms based on quantum coherence, superposition, entanglement, superabsorption, superradiance and strong light-matter coupling. Typical physical implementations include organic microcavities, quantum dots and inorganic nanostructures, perovskite-related platforms, superconducting quantum circuits and qubit-based architectures. The core value proposition lies in faster charging, more efficient energy transfer, low-interference power management and potential integration with quantum computing, microelectronics, sensors, wireless charging and future high-rate energy systems.

At the current stage, the industry should not be measured as a conventional battery-cell market; pricing is more appropriately assessed through prototype R&D contracts, customised experimental devices, enabling material supply and early-stage technology licensing rather than standardised cell-level ASP.

Based on our research, quantum batteries should be understood as a pre-commercial quantum energy-storage technology rather than a sub-segment of conventional electrochemical batteries. The industry is currently defined by laboratory-scale prototypes, quantum thermodynamics, advanced materials platforms and device-level proof-of-concept work. Its decisive technical variables are quantum-state lifetime,

scalable light-matter coupling, usable energy extraction, device stability and system integration, rather than cell manufacturing capacity or battery-pack cost. The 2026 Australian proof-of-concept marked an important step because it demonstrated a full charge-store-discharge cycle, but the present capacity and storage duration remain far from practical battery deployment.

The global supply structure is not yet comparable to the lithium-ion or solid-state battery industries. At this stage, the most credible participants are research organisations and deep-tech entities, while quantum-dot materials suppliers and quantum-computing companies should be treated as adjacent or potential participants only when official product evidence supports their relevance. Planckian remains the most notable corporate name historically associated with quantum battery development, but its current public positioning appears more focused on next-generation quantum processors, which requires caution in revenue modelling and ranking.

From a demand perspective, near-term adoption is more likely to emerge from quantum computing, microelectronics, sensors, optical energy conversion and low-interference energy-management systems than from electric vehicles or grid-scale storage. Policy support for quantum technologies in Europe, China and the United States can improve the funding environment, but it should not be interpreted as direct evidence of a mature quantum battery market. The sector's outlook is attractive but highly option-like: a single technical breakthrough in storage lifetime or scalable device manufacturing could materially change the market trajectory, while slow progress would keep the market largely confined to research and prototype revenues.

This report studies the global Quantum Battery Technology demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Quantum Battery Technology, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Quantum Battery Technology that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Quantum Battery Technology total market, 2021-2032, (USD Million)

Global Quantum Battery Technology total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Quantum Battery Technology total market, key domestic companies,

and share, (USD Million)

Global Quantum Battery Technology revenue by player, revenue and market share 2021-2026, (USD Million)

Global Quantum Battery Technology total market by Technology Platform, CAGR, 2021-2032, (USD Million)

Global Quantum Battery Technology total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Quantum Battery Technology market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CSIRO Quantum Battery Team, RMIT University, University of Melbourne, Planckian, Avantama AG, Nanoco Group plc, NNCrystal US Corporation, QuantumScape Corporation, Google Quantum AI, IBM Quantum, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Quantum Battery Technology market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Technology Platform, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Quantum Battery Technology Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quantum Battery Technology Market, Segmentation by Technology Platform:

Organic Microcavity Quantum Batteries

Superconducting / Qubit-based Quantum Batteries

Quantum Dot / Nanostructure-enabled Platforms

Other

Global Quantum Battery Technology Market, Segmentation by Development Stage:

Theoretical / Simulation Stage

Material / Device Experiment Stage

Proof-of-concept Prototype Stage

Pre-commercial Development Stage

Global Quantum Battery Technology Market, Segmentation by Functional Role:

Energy Storage Device

Fast-charging Energy Module

Quantum Power Management Component

Other

Global Quantum Battery Technology Market, Segmentation by Application:

Quantum Computing Systems

Microelectronics and Sensors

Wireless Charging Concepts

Future Mobility and Drones

Other

Companies Profiled:

CSIRO Quantum Battery Team

RMIT University

University of Melbourne

Planckian

Avantama AG

Nanoco Group plc

NNCrystal US Corporation

QuantumScape Corporation

Google Quantum AI

IBM Quantum

Quantinuum

Volkswagen Group

Quantum New Energy Technology Limited

Guoneng World (Beijing) Technology Co., Ltd.

Shenzhen Beta Energy Technology Co., Ltd.

The Innovation Academy for Precision Measurement Science and Technology

Tsinghua University

Wuhan Institute of Quantum Technology

Hubei University

Lanzhou University

Key Questions Answered

1. How big is the global Quantum Battery Technology market?
2. What is the demand of the global Quantum Battery Technology market?
3. What is the year over year growth of the global Quantum Battery Technology market?
4. What is the total value of the global Quantum Battery Technology market?
5. Who are the Major Players in the global Quantum Battery Technology market?
6. What are the growth factors driving the market demand?

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