

Global Quantum Battery Technology Market 2026 by Company, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G7B898E7AC4DEN.html>

Date: June 2026

Pages: 122

Price: US\$ 3,480.00 (Single User License)

ID: G7B898E7AC4DEN

Abstracts

According to our (Global Info Research) latest study, the global Quantum Battery Technology market size was valued at US\$ 19.04 million in 2025 and is forecast to a readjusted size of US\$ 85.83 million by 2032 with a CAGR of 23.9% during review period.

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 is a detailed and comprehensive analysis for global Quantum Battery Technology market. Both quantitative and qualitative analyses are presented by company, by region & country, by Technology Platform and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Quantum Battery Technology market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Quantum Battery Technology market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Quantum Battery Technology market size and forecasts, by Technology Platform and by Application, in consumption value (\$ Million), 2021-2032

Global Quantum Battery Technology market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Quantum Battery Technology

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key 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.

Market segmentation

Quantum Battery Technology market is split by Technology Platform and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Technology Platform and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Technology Platform

Organic Microcavity Quantum Batteries

Superconducting / Qubit-based Quantum Batteries

Quantum Dot / Nanostructure-enabled Platforms

Other

Market segment by Development Stage

Theoretical / Simulation Stage

Material / Device Experiment Stage

Proof-of-concept Prototype Stage

Pre-commercial Development Stage

Market segment by Functional Role

Energy Storage Device

Fast-charging Energy Module

Quantum Power Management Component

Other

Market segment by Application

Quantum Computing Systems

Microelectronics and Sensors

Wireless Charging Concepts

Future Mobility and Drones

Other

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Quantum Battery Technology product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Quantum Battery Technology, with revenue, gross margin, and global market share of Quantum Battery Technology from 2021 to 2026.

Chapter 3, the Quantum Battery Technology competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Technology Platform and by Application, with consumption value and growth rate by Technology Platform, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Quantum Battery Technology market forecast, by regions, by Technology Platform and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Quantum Battery Technology.

Chapter 13, to describe Quantum Battery Technology research findings and conclusion.

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