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# Global Dry Electrode Technology Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Dry Electrode Technology market size is predicted to grow from US$ 80.37 million in 2025 to US$ 4711 million in 2032; it is expected to grow at a CAGR of 74.2% from 2026 to 2032.

Dry electrode technology is a solvent-free electrode manufacturing process that directly prepares electrodes through steps such as dry mixing, dry coating, calendering, and slitting. Its core lies in avoiding the use of solvents and drying steps in traditional wet processes. It employs mechanical dry mixing (such as dual-blade grinding and ball milling) and electrostatic spraying techniques to achieve uniform mixing of active materials, conductive agents, and binders, as well as the formation of self-supporting films. This technology improves production efficiency, reduces energy consumption and chemical pollution, and is applicable to fields such as lithium-ion batteries, supercapacitors, and solid-state batteries, driving performance upgrades and sustainable development of electrochemical energy storage devices. The industry's gross profit margin is approximately -20% to -5%.

The main market drivers include the following:

The continued growth of the consumer electronics and electric vehicle markets is the core driving force. The widespread adoption of smartphones, tablets, wearable devices, and electric vehicles has spurred demand for high-energy-density, fast-charging, and long-life batteries. Dry electrode technology directly optimizes battery performance by improving electrode uniformity, reducing internal resistance, and enhancing thermal stability, meeting the evolving needs of end-products. Simultaneously, the global goal of carbon neutrality is driving energy structure transformation, leading to a surge in demand for energy storage systems. Dry electrode technology, with its environmental

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advantages, has become a key support for green energy storage solutions.

Technological advancements and cost optimization form a virtuous cycle. Dry electrode technology significantly reduces production energy consumption and chemical pollution by eliminating solvent use and drying steps, while simultaneously improving production efficiency and material utilization. The development of nanomaterials, composite binders, and intelligent coating equipment further enhances electrode performance and process stability. Furthermore, dry electrode technology is compatible with various battery chemistry systems (such as lithium-ion and solid-state batteries), providing a flexible manufacturing platform for next-generation battery technologies and driving industry innovation and upgrading.

Policy support and supply chain collaboration accelerate market expansion. Governments worldwide are promoting the commercialization of dry electrode technology through subsidies, tax incentives, and R&D funding, as exemplified by the EU's 'Battery 2030' initiative and China's '14th Five-Year Plan' for new energy. Companies across the industry chain are optimizing supply chain efficiency and cost control through strategic cooperation and vertical integration. For instance, material suppliers and battery manufacturers are collaborating to develop customized electrode materials, while equipment manufacturers are providing intelligent production line solutions. Simultaneously, emerging application scenarios (such as AR/VR, drones, and medical implants) are driving demand for miniaturized, highly reliable batteries, opening up new market opportunities for dry electrode technology and creating diversified growth drivers.

This report presents a comprehensive overview, market shares, and growth opportunities of Dry Electrode Technology market by product type, application, key players and key regions and countries.

Segmentation by Type:

Adhesive Fibrillation Method

Spraying Method

Segmentation by Product Category:

Lithium-ion Battery Electrodes

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Supercapacitor Electrodes

Segmentation by Application:

Capacitors

Lithium Batteries

Other

This report also splits the market by region:

United States

China%li%

Europe

Other regions

Japan

South Korea

Southeast Asia

Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

Tesla

LiCAP Technologies

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Sakuu

LG

AM Batteries

Tsingyan Electronic

Panasonic

PowerCO

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