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Global Dry Electrode Technology Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Dry Electrode Technology market size was valued at US$ 84.54 million in 2025 and is forecast to a readjusted size of US$ 4257 million by 2032 with a CAGR of 69.8% during review period.

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

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carbon neutrality is driving energy structure transformation, leading to a surge in demand for energy storage systems. Dry electrode technology, with its environmental 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.

The Dry Electrode Technology market report provides a detailed analysis of global market size, regional and country-level market size, segmentation market growth, market share, competitive Landscape, sales analysis, impact of domestic and global market players, value chain optimization, trade regulations, recent developments, opportunities analysis, strategic market growth analysis, product launches, area marketplace expanding, and technological innovations.

Market segmentation

Dry Electrode Technology market is split by Type and by Application. For the period 2026-2032, the growth among segments provide accurate calculations and forecasts for revenue by Type and by Application. This analysis can help you expand your business

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by targeting qualified niche markets.

Market segment by Type,

Adhesive Fibrillation Method

Spraying Method

Market segment by Product Category

Lithium-ion Battery Electrodes

Supercapacitor Electrodes

Market segment by Application

Capacitors

Lithium Batteries

Other

Market segment by players, this report covers

Tesla

LiCAP Technologies

Sakuu

LG

AM Batteries

Tsingyan Electronic

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Panasonic

PowerCO

Market segment by regions, regional analysis covers

North America
Europe
Asia-Pacific (China, Japan, South Korea, Rest of Asia)
South America
Middle East & Africa

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