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2023 Fuel Cell and Battery Research Review

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Abstracts

Research Review Scope

Batteries are vital to power numerous systems across diverse use cases, such as consumer electronics, energy storage systems, and electric vehicles (EVs). In the present scenario, most battery-powered devices such as tablets, smartphones, energy storage systems, and EVs rely majorly on lithium-ion (Li-ion) batteries, which are capable of storing significant amounts of energy in a small form factor and can charge quickly. However, there is a growing demand for new battery technologies to rival Li-ion batteries in terms of cost, efficiency, safety, and sustainability. Therefore, battery manufacturers are continuously striving to find battery chemistries that are cheaper, lighter, denser, and more powerful than conventional Li-ion battery systems.

Advanced battery technologies such as solid-state, lithium-sulfur, and next-generation flow batteries are at the forefront of innovation as a promising alternative to traditional battery systems to offer superior efficiency, energy storage capabilities, and safety. While spending significant resources on R&D for advanced battery solutions, manufacturers are also optimizing the existing Li-ion battery technology, which still dominates the EV market due to the established supply chains and manufacturing and distribution networks.

With the surge in the adoption of batteries for EVs, thermal management and insulation technologies have become critical to ensure occupant safety, battery performance, and longevity. Materials such as ceramics and foamed plastics are used for insulation applications to leverage high-temperature resistance properties and electrical insulation.

Research Reviews from BCC Research provide market professionals with concise market coverage within a specific research category. This 2023 Research Review of Fuel Cell and Battery provides a sampling of the type of quantitative market information,

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analysis, and guidance that BCC Research has been developing since its inception in 1971 to help its customers make informed business decisions. This Research Review includes highlights and excerpts from the following reports published by BCC Research in 2023:

FCB062A Next-Generation Advanced Batteries: Global Markets

FCB063A Global Electrical Vehicle Battery Market

FCB064A Global Electric Vehicle Insulation Market

After you survey the excerpts in this Research Review, we encourage you to follow up on these topics by checking out the full market research reports associated with each topic. BCC Research looks forward to serving your market intelligence needs in the future.

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