

Kalmar has introduced its second-generation lithium-ion (Li-ion) battery solution for its range of electrically powered counter balanced equipment: reachstackers, empty container handlers ...

Graphene batteries and lithium-ion batteries are two of the most talked-about technologies in the energy storage industry. Both have their own unique properties and advantages, but which one is better? In this article, I will ...

Octillion Power Systems, a California-based supplier of high-density lithium-ion battery packs for electric vehicles of all types, has expanded its existing partnership with Vision Marine ...

From sodium-ion to solid-state and vanadium redox flow to aluminium-air batteries, these alternatives aim to address cost, safety, and sustainability challenges. So, let's explore five of ...

YOGYAKARTA - In the midst of the increasing energy demand, especially in electronic devices and electric vehicles, battery technology continues to develop. One of the most promising ...

The demand for lithium-ion batteries is projected to grow significantly, driven by applications in EVs, BESS, and consumer electronics. The market is expected to expand from approximately ...

A team of Chinese researchers has made a groundbreaking breakthrough to revive aging lithium batteries by injecting a "shot" of lithium ions, potentially extending their lifespan from the typical 6-8 years or 1,000-1,500 ...

Tesla is once again making headlines with its innovative approach to electric vehicle (EV) battery technology. The introduction of Tesla's new lithium-iron-phosphate (LFP) battery tech marks a ...

This article examines the advancements in lithium-ion battery technology, focusing on material selection and recycling strategies to support this transition. Electric vehicles utilize an on-board ...

July 2, 2025 Vanadium Redox Flow Batteries: A Safer Alternative to Lithium-Ion Technology As the global push for renewable energy accelerates, the demand for safe, sustainable, and ...

The global lithium-ion secondary battery market is experiencing robust growth, driven by the burgeoning demand for electric vehicles (EVs), energy storage systems (ESS), and portable ...

A research team in South Korea has developed a breakthrough transfer printing technology that forms protective thin layers on lithium metal surfaces--an innovation poised to solve the long-standing dendrite issue

plaguing next ...

A Cleaner, Cheaper Way to Make High-Performance Lithium-Ion Batteries A new breakthrough in battery chemistry could eliminate the use of cobalt and nickel in lithium-ion batteries.

Globeleq will work on Africa's largest standalone battery energy storage system closely with leading global battery and balance-of-plant suppliers. According to the company, the project will require an investment of ...

Potassium-ion batteries store more energy than sodium-ion options, making them ideal for large-scale green energy storage, according to a summary of recent research at Dongguk University ...

Lithium-ion technology offers a smarter, more sustainable alternative. Li-ion batteries deliver up to three times the service life of conventional systems, require no maintenance, and eliminate the ...

Furthermore, 3D printing technology can be employed in the fabrication of solid-state electrolytes for lithium-ion batteries to enhance their conductivity and durability. The application of 3D ...

StamiNa is led by Professor Serena Margadonna, Chair in Materials Engineering at Swansea University, and it aims to demonstrate and validate a new sodium-ion battery (SIB) technology ...

Mapped: EV Battery Manufacturing Capacity, by RegionThe demand for lithium-ion batteries for electric vehicles (EVs) is rising rapidly--it's set to reach 9,300 gigawatt-hours (GWh) by 2030--up by over 1,600% from 2020 ...

Two projects led by the University of Oxford have received a major funding boost from the Faraday Institution, the UK's flagship institute for electrochemical energy storage research. The funding is part of a £19 million ...



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