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Two developments are coming together, practical sodium-ion products are entering the market, and a new sodium-air fuel cell concept has demonstrated energy densities that begin to ...

This Review provides an overview of various sodium-ion chemistries with respect to key criteria, including sustainability, before discussing potential solutions, market prospects and future work.

Storing clean energy generated by solar and wind has long been a challenge. Sodium-ion batteries, with their low cost, enhanced thermal stability, and long cycle life, are an attractive alternative.

Sodium-ion batteries (SIBs) are being actively investigated as a potentially viable and more sustainable alternative to lithium-ion batteries (LIBs), driven by concerns over lithium resource ...

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This article dives into the mechanism of sodium-ion batteries, their unique advantages and challenges, and the emerging applications that make them a key player in the future of energy storage.

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Biobased sodium-ion batteries made from lignin show how wood industry by-products can support sustainable energy storage and circular design.

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