

## **Recent innovations in energy storage systems**

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### **Abstract**

Across the globe, the energy landscape is undergoing a profound transformation, driven by the sustainable development goals to address climate change, reduce dependence on fossil fuels, and ensure sustainable energy access for all [1]. One approach to this transformation is the application of innovations in non-conventional energy sources, providing alternatives to traditional energy systems. Innovations in non-conventional energy sources are essential due to the depletion of conventional energy reserves like coal, environmental concerns, and the need for sustainable energy solutions [2].