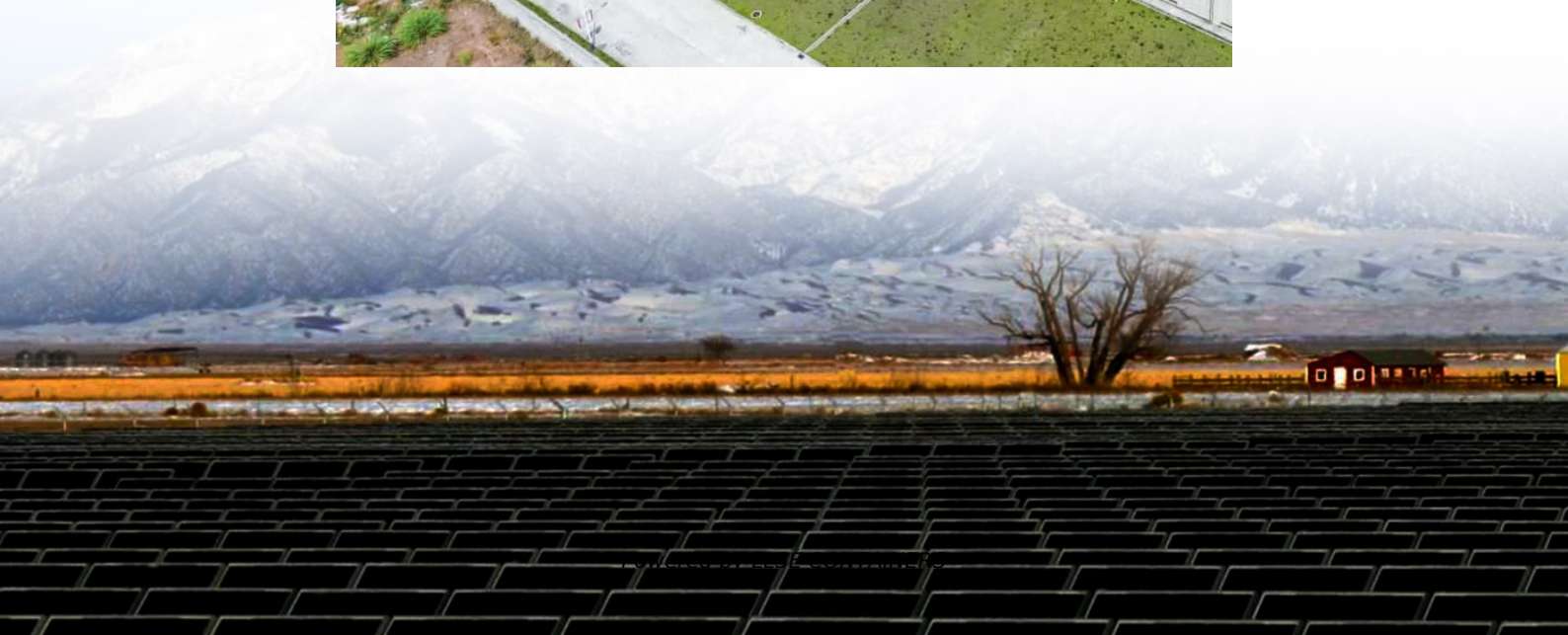


St Lucia user-side electrochemical energy storage





Overview

What are electrochemical storage systems?

Electrochemical storage systems, encompassing technologies from lithium-ion batteries and flow batteries to emerging sodium-based systems, have demonstrated promising capabilities in addressing these integration challenges through their versatility and rapid response characteristics.

Why do we need batteries in Sardinia?

For instance, sodium-seawater batteries deployed in Sardinia have reduced power fluctuations by over 80%, enabling full decarbonization of the island's energy system. Beyond energy storage, these batteries support grid stability, reduce curtailment, and add value through desalination capabilities and CO₂ capture functionalities .

Why are stochastic energy sources important?

The stochastic characteristics of renewable energy sources such as wind and solar pose major challenges in terms of supply matching demand due to the inherent variability and intermittency of these sources, requiring sophisticated storage solutions to maintain grid stability and reliability.

What are the economic benefits of energy storage?

Market analyses reveal that regions with higher renewable energy penetration typically demonstrate stronger economic cases for energy storage deployment, with potential revenue streams expanding beyond traditional applications to include frequency regulation, peak shaving, and energy balancing.



St Lucia user-side electrochemical energy storage

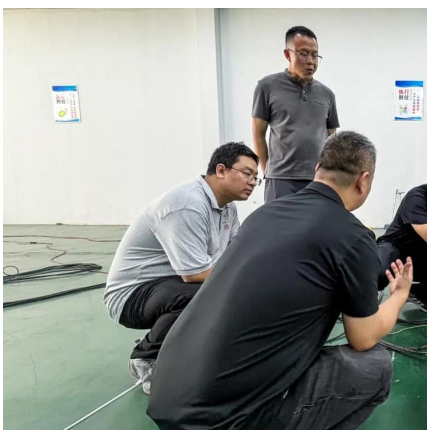


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