

Is energy storage the future of power?

Renewable energy is the future of power, but relying on solar, wind, etc. will require a more reliable and resilient grid. Effective energy storage would make it possible to smooth out discrepancies in supply and demand, and harness renewable power more efficiently.

Is RMES more economical than stationary battery storage?

Compared to stationary battery storage (Strategy (1)), RMES is more economical for low-frequency events when the distance between regions is small (Fig. 4a). For example, if RMES travels a total of 400 km between regions, it is more economical than stationary batteries when the resources are called upon $\leq 2\%$ per region annually.

What is energy storage & why is it important?

Effective energy storage would make it possible to smooth out discrepancies in supply and demand, and harness renewable power more efficiently. A range of technologies are being developed and refined with that mission in mind, including large-scale lithium-ion batteries and clean hydrogen storage.

What chemistry can be used for large-scale energy storage?

Another Na-based chemistry of interest for large-scale energy storage is the Na-NiCl₂ (so called, ZEBRA) battery that typically operates at 300°C and provides 2.58 V.

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