

Latest energy storage news

Sineng Electric, in partnership with CATL, has successfully facilitated the grid ...

The company is developing several large solar-plus-storage projects across the ...

Distributed - Global news, analysis and opinion on energy storage innovation ...

Following the Trump victory in the 2024 US presidential election, Energy ...

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Although regulation within the European Union requires manufacturers of battery storage systems to provide state-of-health estimates to customers, no standardized methods for such estimates exist. Now, a large open-access dataset from eight years of field measurements of home storage systems is presented, enabling the development of a capacity estimation method.

Traditionally, lithium-ion battery cathodes face a trade-off between the energy density afforded by high-voltage anion reduction-oxidation and long-term stability. Now, incorporating polyanion motifs into a disordered oxide crystal structure is shown to stabilize the oxygen sublattice, improving capacity retention at high energy densities.

Aqueous solutions that can enter glassy state have excellent anti-freezing property. Here the authors propose a glass-forming liquid by tailoring tetrahedral and pair-correlation entropies to achieve ultralow temperature energy applications.

A cost-based method to assess lithium-ion battery carbon footprints was developed, finding that sourcing nickel and lithium influences emissions more than production location. This aids in designing green industrial policy.

Severe Ni/Li antisite disorder in nickel-rich layered oxides leads to structural degradation and performance decay in Li-ion batteries. Here, authors report a noninvasive strategy of magnetoelectrochemical synergistic activation to realize ordered cation rearrangement and recovery battery capacity.

The authors have demonstrated a method for real-time imaging of the interior of a battery using ultrasound imaging. This approach reveals effects that hinder fast charging, enabling researchers to develop new batteries and optimize their utilization.

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