

Alternatives to Batteries for Energy Storage: Cutting-Edge Options

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## Why Look Beyond Battery Storage?

Let's face it - lithium-ion batteries have become the poster child of energy storage. But here's the kicker: 92% of global grid-scale storage capacity actually comes from pumped hydro, not batteries. Makes you wonder, doesn't it? Why aren't we talking more about battery-free solutions that could revolutionize how we handle renewable energy's intermittent nature?

In California's latest blackout prevention strategy, officials allocated \$380 million for thermal storage projects. That's right - storing sunshine as heat rather than electrons. Could this be the beginning of a major shift?

## The Elephant in the Power Grid

Batteries struggle with three fundamental limits: duration (most last

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