

Short-Term Energy Storage Revolution

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The Grid Crisis We're Ignoring

You know how your phone dies right when you need it most? Our power grids are facing that exact problem - but with higher stakes. As renewables hit 35% of global electricity generation (up from 29% in 2022), we're discovering a brutal truth: short-term energy storage isn't just convenient, it's becoming civilization's life support system.

Last month's Texas grid emergency tells the story. When solar output dropped 40% during an unexpected storm, operators scrambled to balance supply. "We had enough total energy," admits ERCOT spokesperson Gina Clark, "but not in the right places at the right milliseconds."

The 15-Minute Ticking Clock

Modern grids need to respond faster than a TikTok trend. Let's break it down:

Frequency regulation: Requires response within

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