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ENERGY

**From price swings to cost savings:  
keeping the effects of volatility  
under control.**

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## **Navigating a volatile energy landscape**

Today's energy markets offer new opportunities but also growing uncertainty. As renewables reshape supply patterns, businesses and grid operators face increasing volatility.

The focus is shifting from energy production to understanding how, when, and at what cost it's consumed.

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## The challenge

Renewables like solar and wind generate power based on weather conditions, not on demand. This may create a significant mismatch between supply and consumption:

- Excess energy during low demand can lead to curtailment, where unused energy or grid bottlenecks prevent efficient distribution.

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## The challenge

- Other times, clean energy isn't available during peak demand, requiring backup from underutilized fossil fuel sources.

Without storage, even the cleanest energy systems can struggle with inefficiency, waste, and cost instability.

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## The solution

BESS addresses this challenge by charging during low-price periods and discharging when prices and demand peak.

Reducing grid congestion and transmission bottlenecks.

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## The result

This leads to:

- lower capital and operational costs;
- reduced peak-time grid stress;
- controlled price volatility;
- a more flexible, resilient, and economically optimized energy system for all users.

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