

Effective assets of grid energy storage investment





Overview

Are energy storage assets a good investment?

Storage assets therefore depend on price spreads, which tend to be higher with more imbalances. Imbalances, in return, are driven by more renewables. Energy storage is therefore well-positioned for an electricity market dominated by renewables and represents an interesting new asset class.

Are energy storage assets a power trading asset?

In contrast to wind and solar, where the asset owner simply sells power into the grid when produced, energy storage assets are power trading assets. Different revenue streams can be stacked, and continuous trading decisions have to be made on whether to buy power, sell power, or participate in ancillary services.

How long does a grid need to store electricity?

First, our results suggest to industry and grid planners that the cost-effective duration for storage is closely tied to the grid's generation mix. Solar-dominant grids tend to need 6-to-8-h storage while wind-dominant grids have a greater need for 10-to-20-h storage.

What makes a good grid-scale energy storage solution?

The optimal grid-scale energy storage solution for a given purpose will depend on a range of factors, including duration, storage capacity and rate of discharge.



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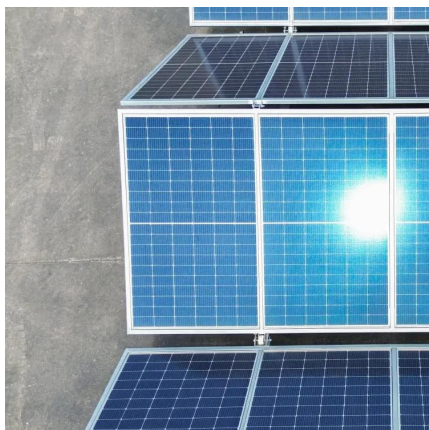
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GRID-SCALE ENERGY STORAGE:

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