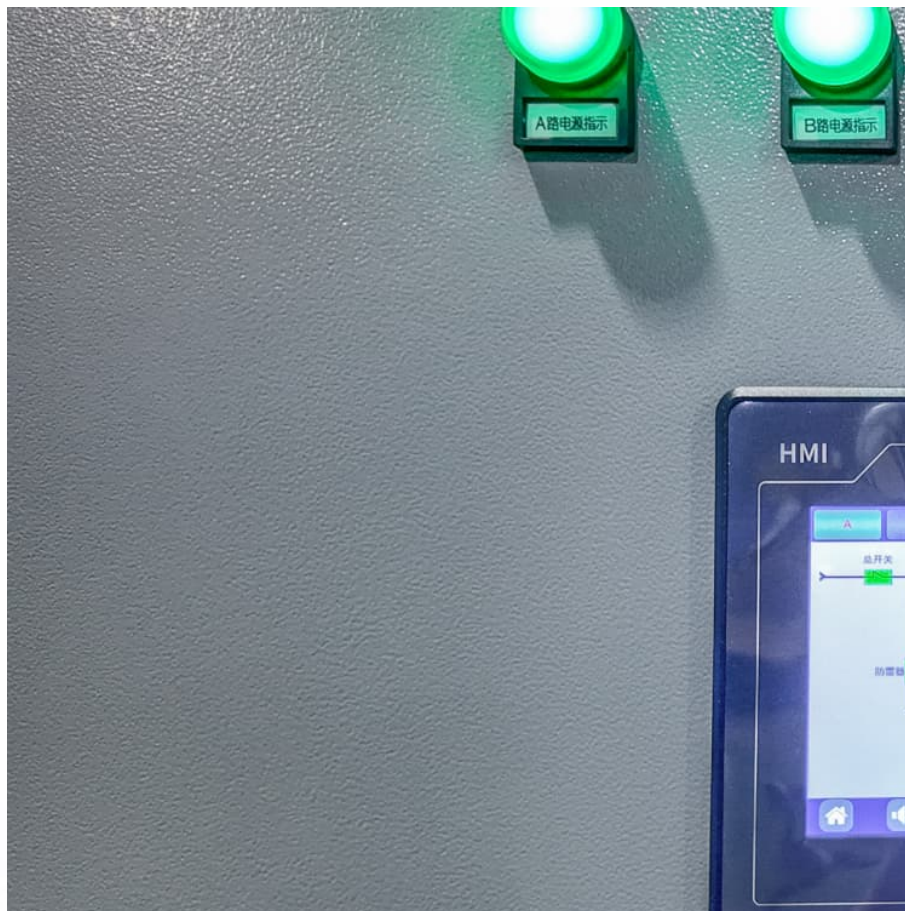


# Undervalued energy storage





## Overview

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Should energy storage be undervalued?

The revenue potential of energy storage is often undervalued. Investors could adjust their evaluation approach to get a true estimate—improving profitability and supporting sustainability goals.

Do investors underestimate the value of energy storage?

While energy storage is already being deployed to support grids across major power markets, new McKinsey analysis suggests investors often underestimate the value of energy storage in their business cases.

What is the cost analysis of energy storage?

We categorise the cost analysis of energy storage into two groups based on the methodology used: while one solely estimates the cost of storage components or systems, the other additionally considers the charging cost, such as the levelised cost approaches.

Do energy storage systems provide value to the energy system?

In general, energy storage systems can provide value to the energy system by reducing its total system cost; and reducing risk for any investment and operation. This paper discusses total system cost reduction in an idealised model without considering risks.

Is cheapest energy storage a good investment?

In most energy systems models, reliability and sustainability are forced by constraints, and if energy demand is exogenous, this leaves cost as the main metric for economic value. Traditional ways to improve storage technologies are to reduce their costs; however, the cheapest energy storage is not always the most valuable in energy systems.

What are the levelised cost approaches for energy storage?



The levelised cost approaches for energy storage include metrics such as the levelised cost of storage when electricity is discharged (LCOS) and LCOH or LCOM when hydrogen or methane are discharged, respectively [ 12, 22 ]. All the levelised cost metrics above are similarly structured.



## Undervalued energy storage

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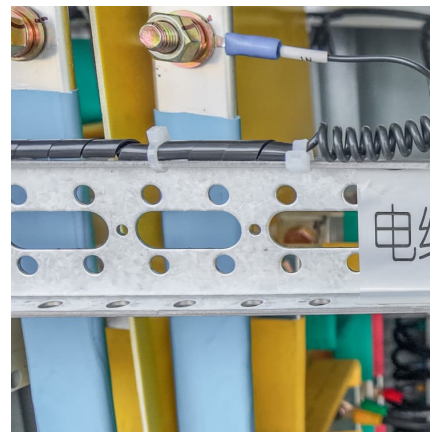


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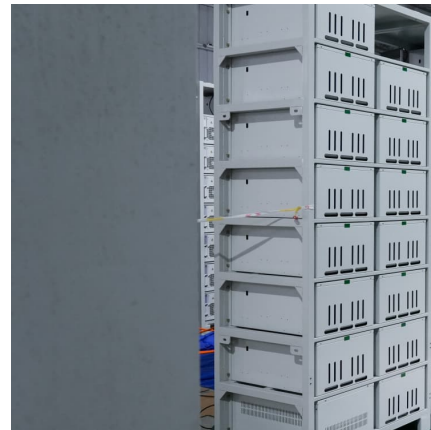
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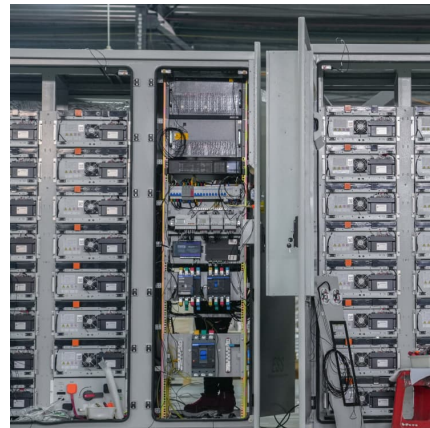
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