

# Comparison of unit prices between long-term mobile energy storage containers and wind power generation





## Overview

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What are the costs for renewable power generation and storage?

In this system analysis, the costs for renewable power generation and storage are all investment (CAPEX) costs. The only variable costs (OPEX) are the operation and maintenance (O&M) costs of the renewable power generation and energy storage assets and the costs for backup power.

How are energy storage systems priced?

They are priced according to five different power ratings to provide a relevant system comparison and a more precise estimate. The power rating of an energy storage system impacts system pricing, where larger systems are typically lower in cost (on a \$/kWh basis) than smaller ones due to volume purchasing, etc.

What is the variable cost of a storage system?

The variable cost (unit in €/kWh-yr) considers all costs necessary to the wear and tear of the storage system during its lifetime operation. Therefore, it is based on the annually charging and discharging energy throughput. Both costs can be estimated by the normalized value given in Table 5.

Can energy storage improve solar and wind power?

With the falling costs of solar PV and wind power technologies, the focus is increasingly moving to the next stage of the energy transition and an energy systems approach, where energy storage can help integrate higher shares of solar and wind power.



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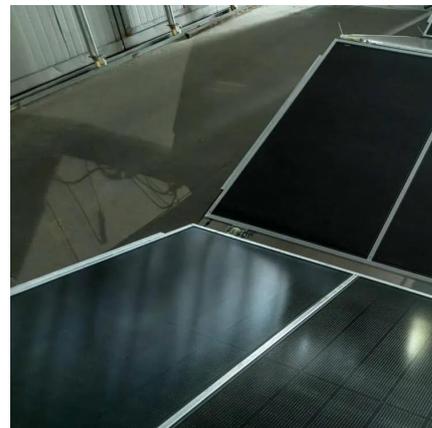
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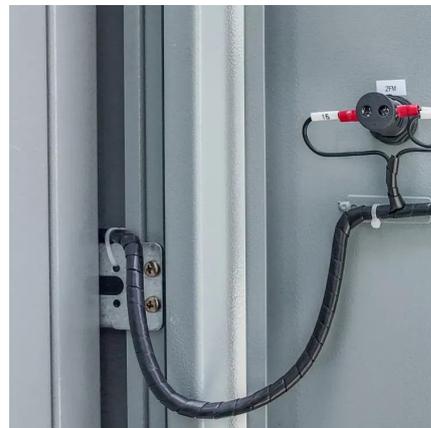


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