



BUHLE POWER

Liechtenstein Mobile Energy Storage Container Scalability Price Comparison





Overview

How are electricity storage technologies ranked?

Three methods were used to rank electricity storage technologies: fixed charging price, market-based charging price, and integration into a fully renewable energy system. The comparison of the three methodologies shows a robust economic ranking of the technologies.

What are the variable costs (OPEX)?

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. For the cost of the energy storage assets, the parameters from Table 1 are used. For the costs of renewable electricity generation, the cost parameters of Table 3 are used.

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 much does LCOE storage cost?

This technology performs relatively well in the one- to multi-day storage time scales. The leveled costs of the electricity released from storage (LCOE_{storage}) are found to be in the order of USD 200–1000/MWh. This is significantly higher than the typical LCOE_{generation} from renewable sources (USD 50–100/MWh).



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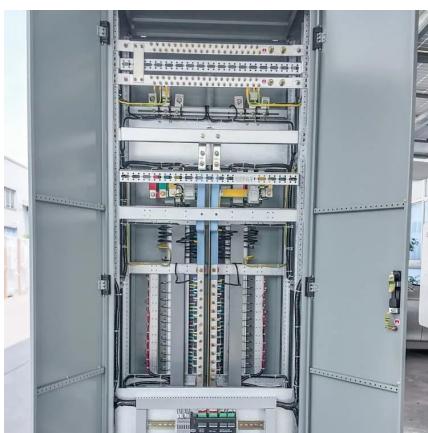


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The cost categories used in the report extend across all energy storage technologies to allow ease of data comparison. Direct costs correspond to equipment capital and installation, while ...



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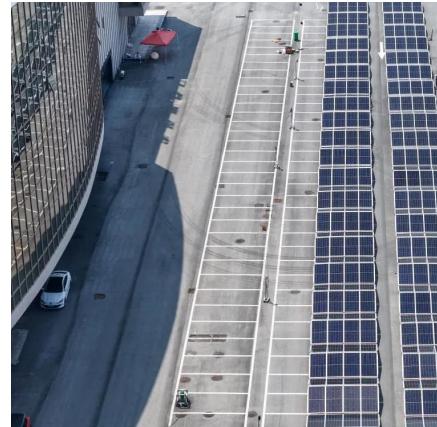
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