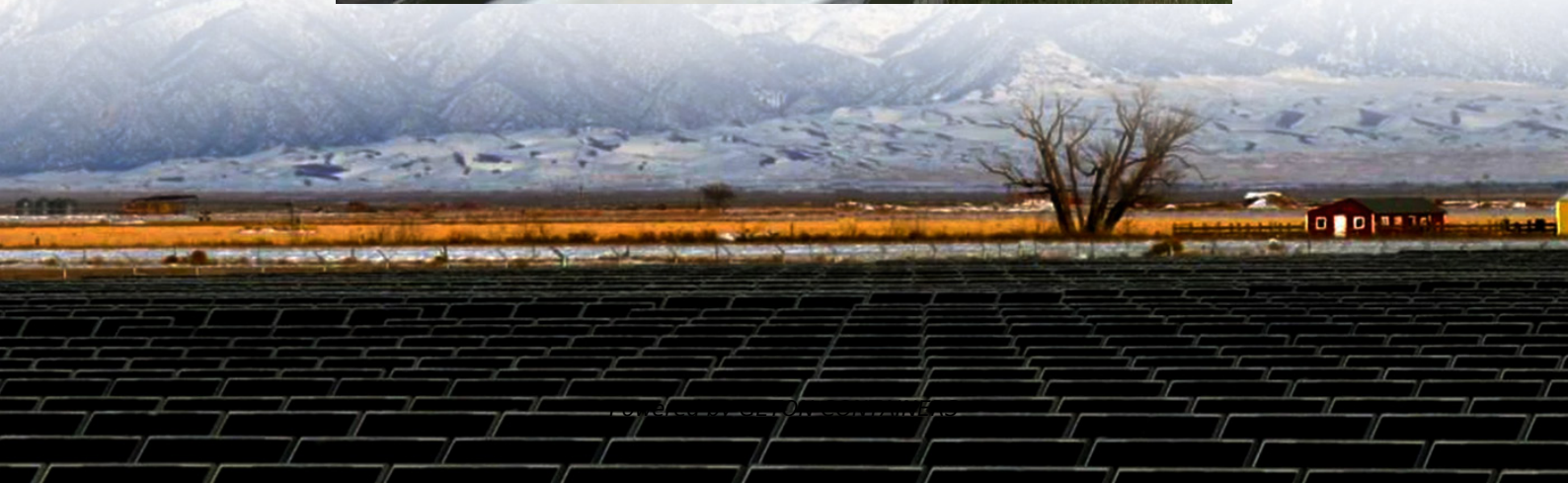


# **Price Comparison of High-Efficiency Mobile Energy Storage Containers**





## Overview

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Are energy storage technologies economically viable?

Through a comparative analysis of different energy storage technologies in various time scale scenarios, we identify diverse economically viable options. Sensitivity analysis reveals the possible impact on economic performance under conditions of near-future technological progress.

Which energy storage technology has the best economic performance?

When the storage duration is 1 day, thermal energy storage exhibits the best economic performance among all energy storage technologies, with a cost of <0.4 CNY/kWh. Even with increased storage durations, the economic performance of TES and CAES remains considerable. Fig. 8. Economic performance under the day-level energy storage scenario.

Which energy storage option is most cost-effective?

The application analysis reveals that battery energy storage is the most cost-effective choice for durations of <2 h, while thermal energy storage is competitive for durations of 2.3–8 h. Pumped hydro storage and compressed-air energy storage emerges as the superior options for durations exceeding 8 h.

Does cost reduction affect economic performance of energy storage technologies?

Specifically, we varied the cost reduction rate by 10 % to demonstrate the effect of different factors on the economic performance of these technologies. It's crucial to note that this section evaluates the economic performance of energy storage technologies over diverse time scales.



## Price Comparison of High-Efficiency Mobile Energy Storage Containers

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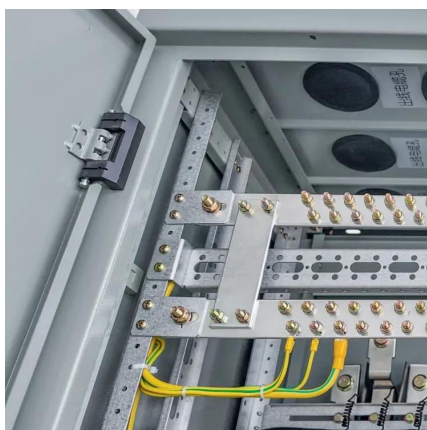
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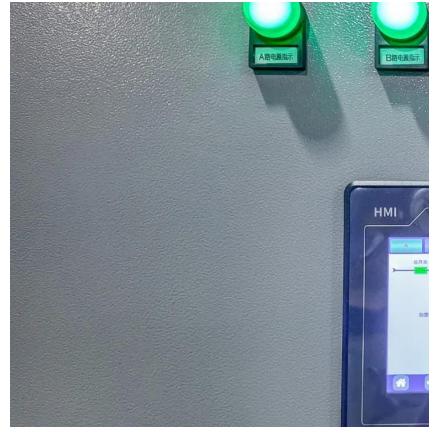




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