

# **Comparison of prices for ultra-high efficiency mobile energy storage containers used in railway stations**





## Overview

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What is the total system cost of mobile energy storage?

The total system cost of mobile energy storage is the same as that of fixed energy storage, including investment cost, operating cost, and recovery cost. Unlike mobile energy storage, which incurs transportation costs during energy transportation, fixed energy storage incurs line transportation costs during energy transportation.

Does China's energy storage technology improve economic performance?

Energy storage technology is a crucial means of addressing the increasing demand for flexibility and renewable energy consumption capacity in power systems. This article evaluates the economic performance of China's energy storage technology in the present and near future by analyzing technical and economic data using the levelized cost method.

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.

What are energy storage technologies?

Energy storage technologies, store energy either as electricity or heat/cold, so it can be used at a later time. With the growth in electric vehicle sales, battery storage costs have fallen rapidly due to economies of scale and technology improvements.



## Comparison of prices for ultra-high efficiency mobile energy storage

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