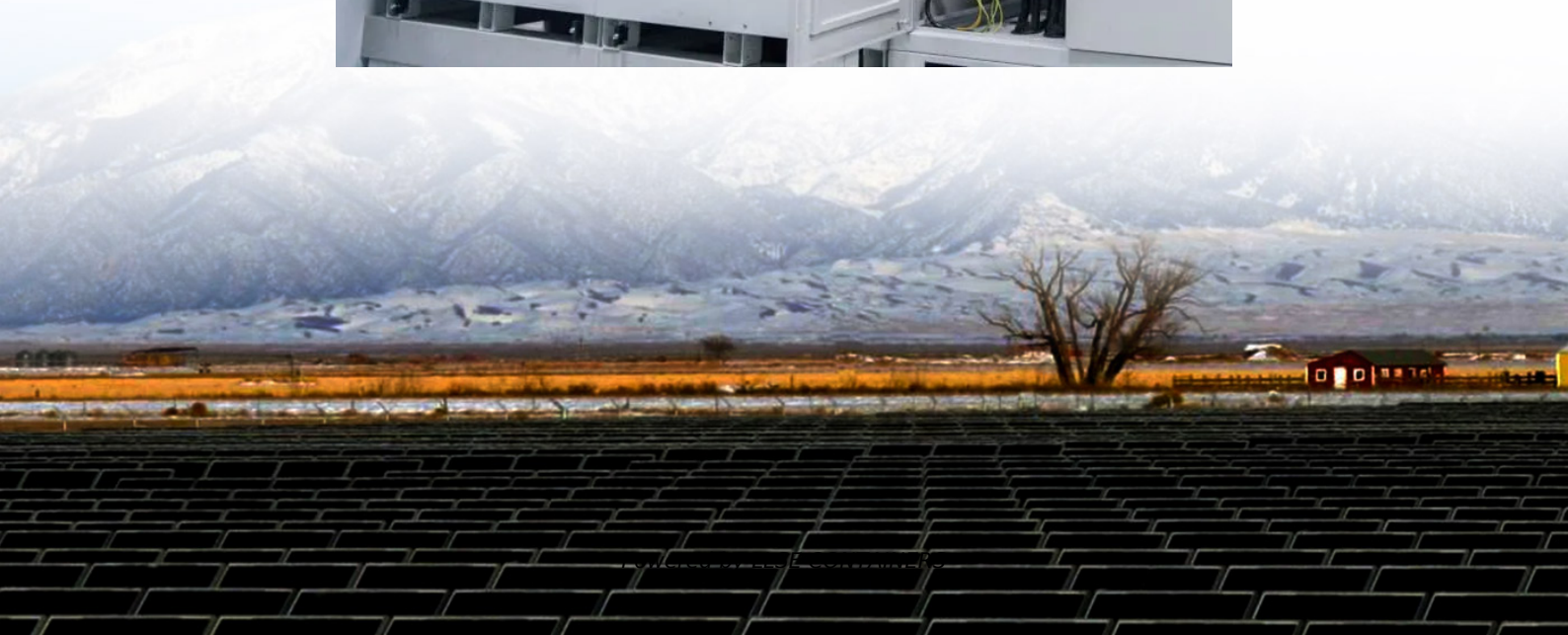


# **Operation and maintenance costs of energy storage projects**





## Overview

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How much does a gas storage system cost?

Generally speaking, the cost of the gas storage tank is the most expensive part of the entire system. Operation and maintenance costs include energy consumption and equipment maintenance. The current cost of compressed air energy storage systems is between US\$500-1,000/kWh.

What is energy storage cost?

Energy storage cost is an important parameter that determines the application of energy storage technologies and the scale of industrial development. The full life cycle cost of an energy storage power station can be divided into installation cost and operating cost.

How much does a battery storage system cost?

Replacing batteries can cost between \$5 million and \$15 million for a 50MW/50MWh system, depending on future battery prices. In summary, maintenance costs for utility-scale battery storage systems are significant and include both ongoing operational expenses and eventual replacement costs over the system's lifespan.

What are the future trends in energy storage costs?

Furthermore, the document discusses future trends in energy storage costs, such as the development of higher capacity cells, cost reductions driven by raw material prices and production capacity, and advancements in system prices and technological progress. Energy storage has become an increasingly important topic in the field of renewable energy.



## Operation and maintenance costs of energy storage projects

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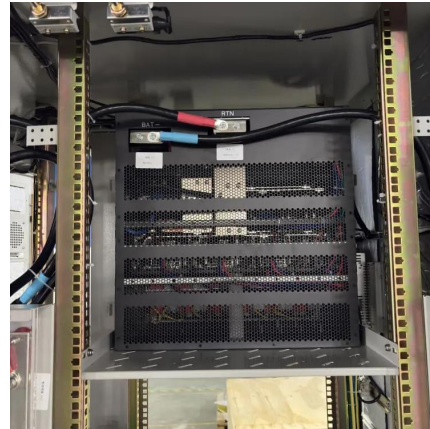


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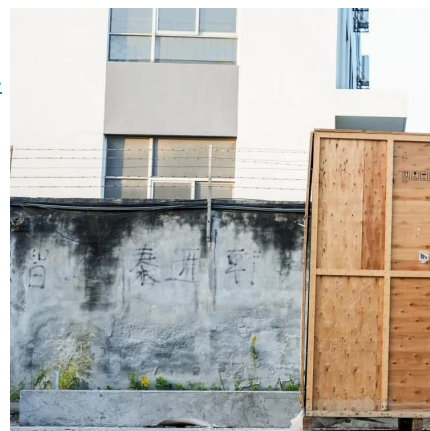
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