



FTMRS SOLAR

Economic parameters of energy storage power stations





Overview

How are the benefits generated by energy storage configuration models evaluated?

In this section, based on the energy storage configuration results mentioned above, the actual benefits generated by these three commercial models are evaluated from four perspectives: technical, economic, environmental, and social. The specific descriptions of the evaluation indicators are as follows.

What is the investment cost of an energy storage system?

The investment cost of an energy storage system primarily refers to its initial investment cost. Although energy storage systems differ greatly due to their different principles and forms, it is still possible to distinguish the devices involved in an energy storage system by power components and energy storage media.

How are energy storage benefits calculated?

First, energy storage configuration models for each mode are developed, and the actual benefits are calculated from technical, economic, environmental, and social perspectives. Then, the CRITIC method is applied to determine the weights of benefit indicators, and the TOPSIS method is used to rank the overall benefits of each mode.

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.



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