

# Energy storage system smoothes electricity consumption curve

Does energy storage reduce the power curve?

The actual measured maximum demand exceeds 105% of the contractual approved value, and the basic electricity fee for the portion exceeding 105% is doubled. Therefore, energy storage can smooth the power curve of the grid connection point and reduce the maximum demand value through "low storage and high discharge".

How can energy storage systems improve the lifespan and power output?

Enhancing the lifespan and power output of energy storage systems should be the main emphasis of research. The focus of current energy storage system trends is on enhancing current technologies to boost their effectiveness, lower prices, and expand their flexibility to various applications.

What is the current energy storage configuration model?

The current energy storage configuration model does not fully consider the relevant technical parameters and performance characteristics of energy storage. Energy storage is mainly involved in energy scheduling as one of the multiple devices in the integrated energy system.

Can dynamic time-of-use electricity prices improve energy storage capacity?

Using dynamic time-of-use electricity prices can more flexibly obtain the capacity configuration scale of energy storage. The article adopts the capacity and maximum power values of energy storage configuration in each season, which can meet the demand for energy storage capacity in each season.

Can energy storage capacity be allocated based on electricity prices?

**Conclusions** This article studies the allocation of energy storage capacity considering electricity prices and on-site consumption of new energy in wind and solar energy storage systems. A nested two-layer optimization model is constructed, and the following conclusions are drawn:

How can energy storage devices improve on-site energy consumption?

Author to whom correspondence should be addressed. Configuring energy storage devices can effectively improve the on-site consumption rate of new energy such as wind power and photovoltaic, and alleviate the planning and construction pressure of external power grids on grid-connected operation of new energy.



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