

Three-dimensional configuration of new energy storage





Overview

Why is energy storage configuration important?

In the context of increasing renewable energy penetration, energy storage configuration plays a critical role in mitigating output volatility, enhancing absorption rates, and ensuring the stable operation of power systems.

What are the different types of energy storage configurations?

New energy power plants can implement energy storage configurations through commercial modes such as self-built, leased, and shared. In these three modes, the entities involved can be classified into two categories: the actual owner of the energy storage and the user of the energy storage.

Can energy storage configuration schemes be tailored for new energy power plants?

This paper proposes tailored energy storage configuration schemes for new energy power plants based on these three commercial modes.

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.



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