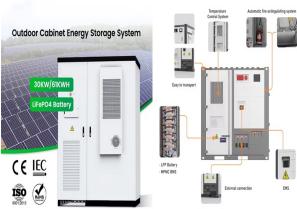
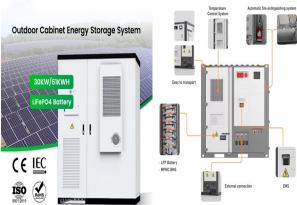


SIDE ENERGY STORAGE INVESTMENT



What is user-side energy storage? 1. Introduction User-side energy storage mainly refers to the application of electrochemical energy storage systems by industrial, commercial, residential, or independent powerplant customers (which in convenience we call "firms").



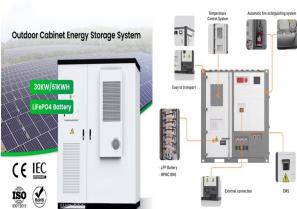
What are the challenges of user-side energy storage development? Then the challenges of current user-side energy storage development, such as uncertainty of electricity price policy and the lack of household energy storage market, are investigated.



Should you invest in future energy storage technologies? Additionally, the investment threshold is significantly lower under the single strategy than it is under the continuous strategy. Therefore, direct investment in future energy storage technologies is the best choice when new technologies are already available.



How to choose the best energy storage investment scheme? By solving for the investment threshold and investment opportunity value under various uncertainties and different strategies, the optimal investment scheme can be obtained. Finally, to verify the validity of the model, it is applied to investment decisions for energy storage participation in China's peaking auxiliary service market.

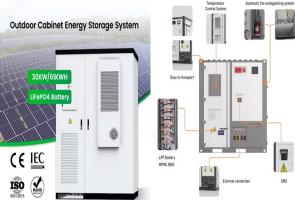


Is there a real option model for energy storage sequential investment decision? Propose a real options model for energy storage sequential investment decision. Policy adjustment frequency and subsidy adjustment magnitude are considered. Technological innovation level can offset adverse effects of policy uncertainty. Current investment in energy storage technology without high economics in China.

SIDE ENERGY STORAGE INVESTMENT



Is there a realistic investment decision framework for energy storage technology? Therefore, in order to provide a more realistic investment decisions framework for energy storage technology, this study develops a sequential investment decision model based on real options theory, which can consider policy, technological innovation, and market uncertainties.



,a?? ,a?? a?|



Shared energy storage can make full use of the sharing economy's nature, which can improve benefits through the underutilized resources [8]. Due to the complementarity of a?|



Furthermore, regarding the economic assessment of energy storage systems on the user side [[7], [8], [9]], research has primarily focused on determining the lifecycle cost of a?|



MORE In order to maximize the benefits of user-side energy storage, a user-side energy storage optimization allocation method is proposed to participate in the auxiliary service market rst,a a?|



Promising battery energy storage growth with US\$385bn total addressable market. On the end users" side, widening the peak-trough electricity price difference is important to improving the a?|

SIDE ENERGY STORAGE INVESTMENT



Energy storage technology is one of the critical supporting technologies to achieve carbon neutrality target. However, the investment in energy storage technology in China faces a?|



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We develop a real options model for firms" investments in the user-side energy storage. After the investment, the firms obtain profits through the peak-valley electricity price a?|



We develop a real options model for firms" investments in the user-side energy storage. After the investment, the firms obtain profits through the peak-valley electricity price spreads. They face a?|



Under the direction of the national "Guiding Opinions on Promoting Energy Storage Technology and Industry Development" policy, the development of energy storage in China over the past five years has entered the fast track. a?|



1. Owner Self-Investment Model. The energy storage owner's self-investment model refers to a model in which enterprises or individuals purchase, own and operate energy storage systems with their funds; that is, the owners a?|