

SolarTech Power Solutions

Small investment energy storage project



Overview

Accelerating the planning and development of a new power system that is more renewable energy-based is a strategic priority of achieving “dual carbon” goals (peaking carbon emissions before 2030 and becoming carbon neutral by 2060).

How to promote energy storage technology investment?

Therefore, increasing the technology innovation level, as indicated by unit benefit coefficient, can promote energy storage technology investment. On the other hand, reducing the unit investment cost can mainly increase the investment opportunity value.

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.

What is the investment opportunity value of the second energy storage technology?

The investment opportunity value of the second energy storage technology is $F_{1,2}(P)$. In State 2, the firm operates the second technology, which is adopted at time τ_2 , and the expected value of this energy storage technology is $\Phi_2(P)$. Fig. 1. Single investment strategy under the deterministic policy. Fig. 2.

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.

Are energy storage investors moving to state-owned enterprises (SOEs)?

This implies a major shift in energy storage investors to state-owned enterprises (SOEs) from power grid companies such as China Energy, Huaneng, Huadian, and State Power Investment Corporation (SPIC) .

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