

SolarInnovate Energy Solutions

Government subsidies for chemical energy storage projects

LiFePO₄ Battery, safety

Wide temperature: -20~55°C

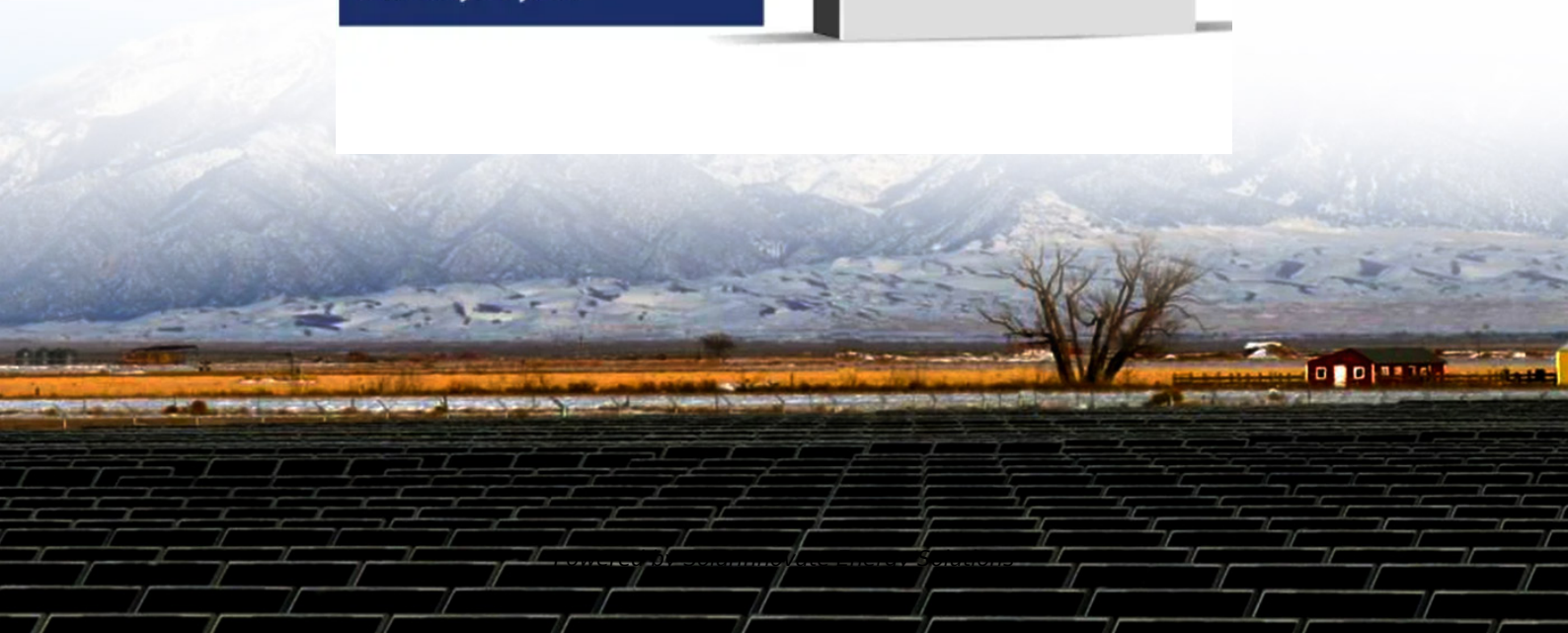
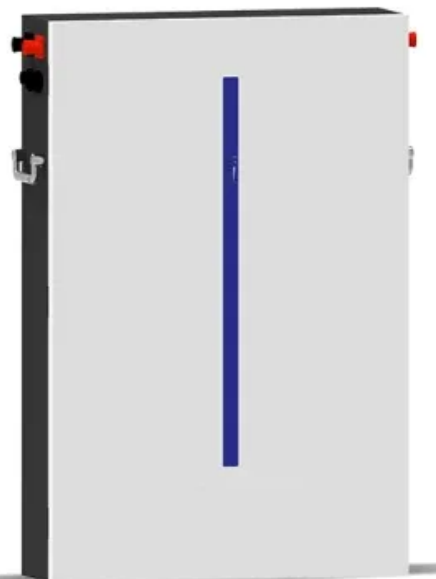
Modular design, easy to expand

Wall-Mounted&Floor-Mounted

Intelligent BMS

Cycle Life: ≥ 6000

Warranty: 10 years



Overview

Will China keep implementing policy incentives for energy storage?

To effectively guarantee its grid stability of renewable energy sources, the Chinese government is expected to keep implementing its policy incentives for energy storage in the near future. This particular dataset provides us with the technical specifications of an energy storage system and allows us to calculate the model parameters.

What if there is no government subsidy?

Without government subsidies, the uncertainty that firms face when making investment decisions is mainly due to the fluctuation in the peak-valley spreads. The fluctuation, however, is capped by a maximum set by the government to keep the stability of the electricity market.

How does a subsidy removal policy affect firms' willingness to invest?

The threshold decreases as the expectation of the subsidy removal policy increases during the implementation stage for a given policy intensity. This indicates that under current favorable policy situation, the firms' willingness to invest now increases as the expectation of subsidy removal policy increases. Fig. 2.

What if the Chinese government announces a 30% subsidy?

For example, if the Chinese government unexpectedly announces a 30% subsidy and promises no subsidy in the near future, it can lower the spread threshold by 0.3950 RMB/kWh (or 39.8%), thus stimulating more immediate investments.

Can a subsidy policy be activated or terminated at an uncertain time?

The subsidy policy, however, can be activated or terminated at an uncertain time and therefore, the firms face additional policy uncertainty when making the decision. We derive the investment thresholds of the market spread that

the firms use to make a decision on investing immediately or holding an option.

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").

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114KWh ESS



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