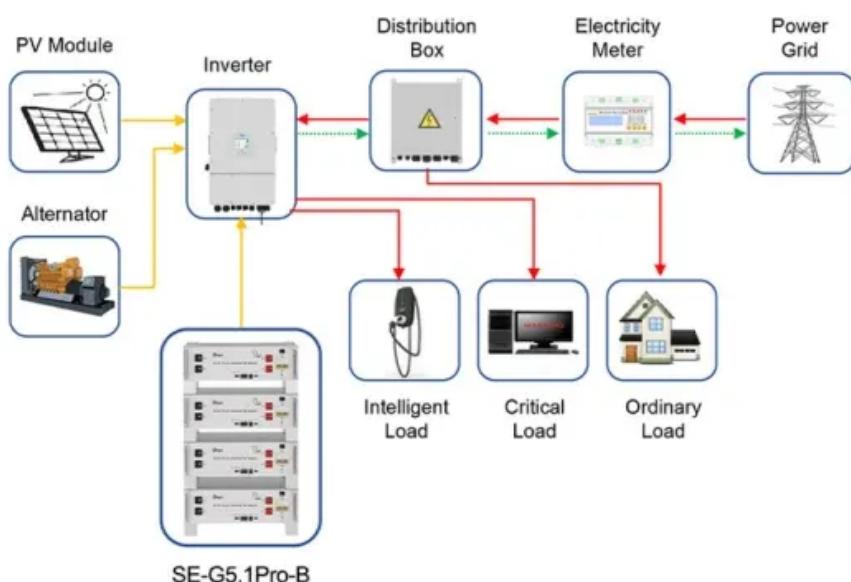


SolarTech Power Solutions

Iraq's industrial energy storage peak-valley arbitrage income ratio



Application scenarios of energy storage battery products

Overview

What is the maximum daily revenue through arbitrage?

Maximum daily revenue through arbitrage varies with roundtrip efficiency. Revenue of arbitrage is compared to cost of energy for various storage technologies. Breakeven cost of storage is firstly calculated with different loan periods. The time-varying mismatch between electricity supply and demand is a growing challenge for the electricity market.

How energy storage systems can be used to generate arbitrage?

Due to the increased daily electricity price variations caused by the peak and off-peak demands, energy storage systems can be utilized to generate arbitrage by charging the plants during low price periods and discharging them during high price periods.

How does reserve capacity affect peak-valley arbitrage income?

However, when the proportion of reserve capacity continues to increase, the increase of reactive power compensation income is not obvious and the active output of converter is limited, which reduces the income of peak-valley arbitrage and thus the overall income is decreased.

How do price differences influence arbitrage by energy storage?

Price differences due to demand variations enable arbitrage by energy storage. Maximum daily revenue through arbitrage varies with roundtrip efficiency. Revenue of arbitrage is compared to cost of energy for various storage technologies. Breakeven cost of storage is firstly calculated with different loan periods.

What are arbitrage revenue and storage technology costs?

Arbitrage revenue and storage technology costs for various loan periods as a function of storage capacity for (a) Li-ion batteries, (b) Compressed Air Energy Storage, and (c) Pumped Hydro Storage. Fig. 11 c shows the current cost of

PHS per day and the arbitrage revenue with round trip efficiency of 80%.

What is the arbitrage strategy?

The present arbitrage strategy is designed for the given technology attributes (including round-trip efficiency) to store the off-peak energy when the electricity price is low and releases the energy when the price is high (during the peak demand period).

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