

SolarInnovate Energy Solutions

Peak-valley electricity storage price

Utility-Scale ESS solutions



Overview

How many provinces have a peak to Valley electricity price difference?

The State Grids and China Southern Power Grids of 29 provinces, autonomous regions and municipalities announced the electricity tariffs for industrial and commercial users in December 2021. According to the statistics, 14 provinces and cities have a peak to valley electricity price difference that exceeds 0.7 yuan/kWh.

Can user-side energy storage projects be profitable?

At present, user-side energy storage mainly generates income through the arbitrage of the peak-to-valley electricity price difference. This means that if the peak to valley price difference is higher than the levelized cost of using storage (LCUS), energy storage projects can be profitable.

How do C&I energy storage projects benefit from Peak-Valley arbitrage?

C&I energy storage projects in China mainly profit from peak-valley arbitrage while reducing demand charges by monitoring the inverters' power output in real time to prevent transformers of industrial parks from exceeding their capacity limits.

How to improve peak-valley price mechanism?

1. Improve the peak-valley price mechanism. | Scientifically divide peak and valley periods. All localities should consider the local power supply-demand status, system power load characteristics, the proportion of new energy installed capacity, system adjustment capabilities, and other factors.

What if Peak-Valley ratio exceeds 40%?

When the peak-valley ratio is expected to exceed 40% in the previous year or the current year, in principle, the electricity price difference should not be less than 4:1; and it should not be less than 3:1 in other places. 2. Establish a peak electricity price mechanism.

What is a deep valley electricity price mechanism?

Where cogeneration units and renewable energy have a large proportion of installed capacity, and where the contradiction between phased oversupply and demand in the power system is prominent, a deep valley electricity price mechanism can be established concerning the peak electricity price mechanism.

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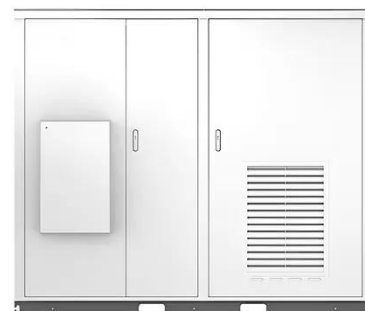
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