

# **The cost per kilowatt-hour of peak-valley energy storage power station**





## Overview

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In order to deal with the rapid growth in residential electricity consumption, residential peak-valley pricing (PVP) policies have been implemented in 12 provinces in China. However, being inappropriate.

What is Peak-Valley pricing?

Peak-valley pricing is adopted to guide users' electricity consumption habits, so that users prefer to use electricity in idle time, which is inconsistent with the operator's base station electricity consumption habits.

Should residential Peak-Valley pricing policies be optimized?

The PVP policy needs to be optimized from the price and time period division. In order to deal with the rapid growth in residential electricity consumption, residential peak-valley pricing (PVP) policies have been implemented in 12 provinces in China. However, being inappropriate, the residential PVP policies have delivered no significant results.

Are electricity pricing policies effective in peak shaving and valley filling?

The focus of power companies is on the variation in the effectiveness of electricity pricing policies in peak shaving and valley filling (Fig. 14). Overall, the current PVP policies in 11 provinces except Gansu are ineffective in peak shaving but are somewhat effective in valley filling.

What if the working power is  $k$  (kW) in a base station?

If the working power of the first type electrical equipment (BBU, PTN, etc.) in a base station is  $k$  (kW), then the first type equipment in a single base station will be charged at the flat pricing and at peak-valley pricing are:



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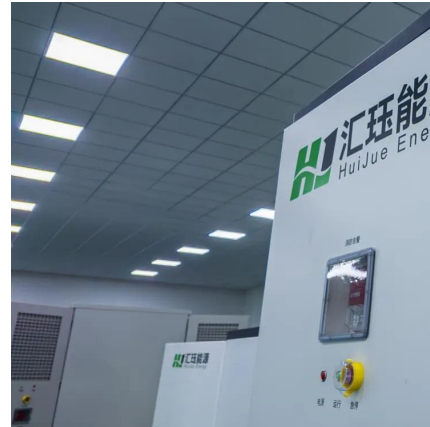
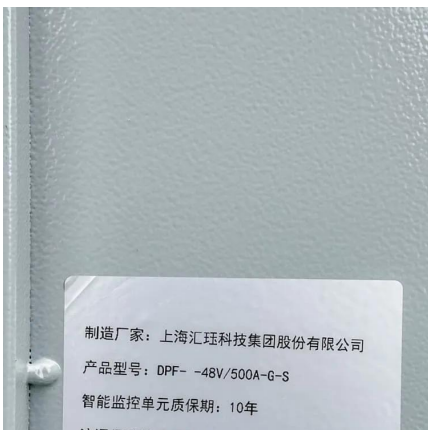
By setting different peak-valley electricity price spread, the electricity consumption changes in the process of gradually increasing peak-valley electricity price differentials are studied. ...





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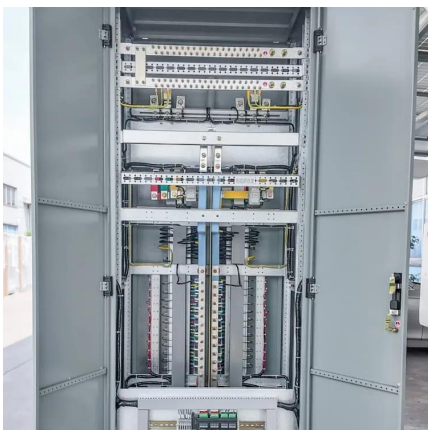
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