

## A-Core Container

# Peak-valley electricity prices and home energy storage



## Overview

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How much does electricity cost in a valley?

Table 1 shows the peak-valley electricity price data of the region. The valley electricity price is 0.0399 \$/kWh, the flat electricity price is 0.1317 \$/kWh, and the peak electricity price is 0.1587 \$/kWh. The operation cycles (charging-discharging) of the Li-ion battery is about 5000–6000.

What is the difference between Peak-Valley electricity price and flat electricity price?

Among the four groups of electricity prices, the peak electricity price and flat electricity price are gradually reduced, the valley electricity price is the same, and the peak-valley electricity price difference is 0.1203 \$/kWh, 0.1188 \$/kWh, 0.1173 \$/kWh and 0.1158 \$/kWh respectively. Table 5. Four groups of peak-valley electricity prices.

What happens if the peak-valley electricity price difference decreases?

As the peak-valley electricity price difference, annual average irradiance and annual average wind speed decrease, the optimal allocation capacity and the annual net revenue of the BESS also decrease.

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