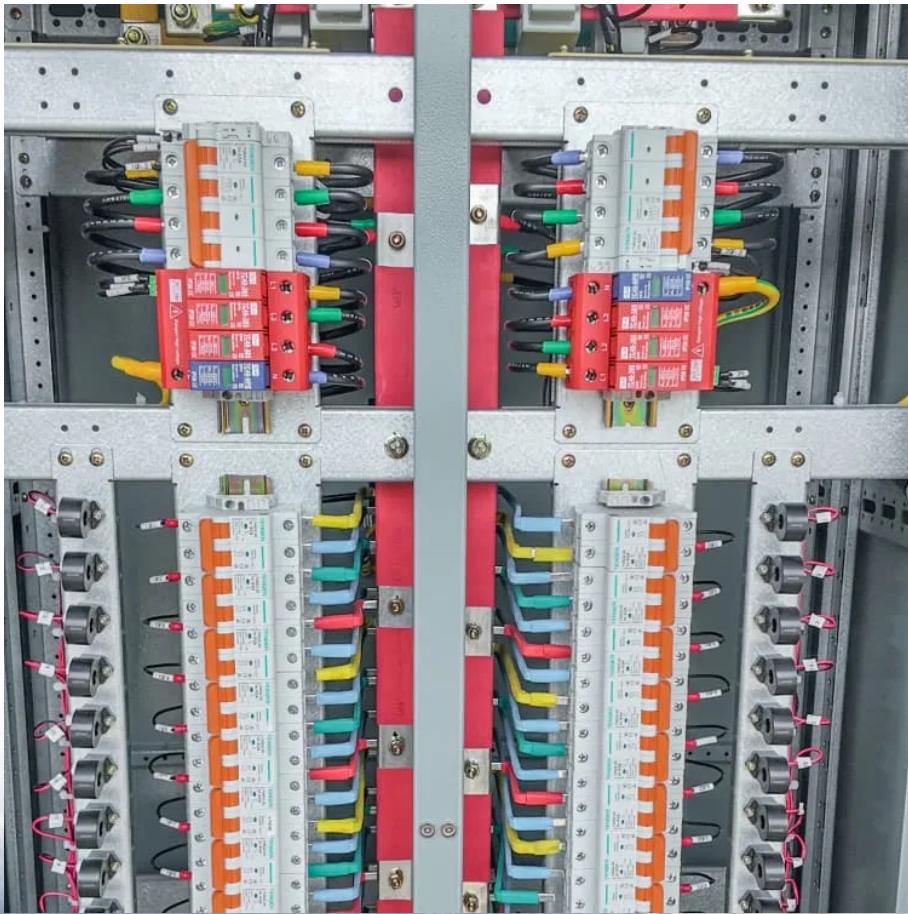




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# **Busan South Korea Peak Loading and Frequency Regulation Energy Storage Power Station**





## Overview

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What is the maximum output power of energy storage peak regulation?

The energy storage output and SOC changes are shown in Figure 5 and Figure 6. The maximum output power of energy storage peak regulation is  $P_{1\max} = 0.13$  MW.

Can small capacity energy storage power stations compete for frequency regulation services?

At present, China's small capacity energy storage power stations cannot be allowed to compete for frequency regulation services, but the establishment of auxiliary service markets such as frequency regulation and standby is conducive to guiding investment to improve the flexibility of power systems [19, 20, 21, 22, 23, 24, 25].

Why does energy storage power station use a battery for peak shaving?

Therefore, the energy storage power station is equipped with energy storage battery for peak shaving, which has limited savings on electricity charges. This is because if the energy storage output is small and the peak shaving is small, it has little impact on electricity charges.

How many hours a day does energy storage take?

Since the total output of the energy storage battery in a day is equal to the sum of the frequency regulation output and the peak shaving output, we can take any continuous two hours in a day to observe, and the actual total output of energy storage is shown in Figure 10. Figure 10. The intra-day total output of the storage. 6.4. Economic Analysis



## Busan South Korea Peak Loading and Frequency Regulation Energy



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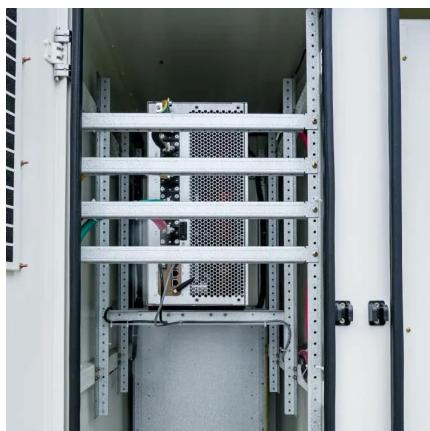
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