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ASEAN Power Plant Energy Storage Peak Shaving Project





Overview

Does China have flexible peak shaving capacity?

China's power consumption is considerable, and the renewable energy industry is developing rapidly. Consequently, enhanced flexible energy resources are required. However, the proportion of power units with flexible peak shaving capacity in China is relatively limited.

Why do power units need a flexible peak shaving capacity?

The power units are required to improve their flexible peak shaving capacity to optimise the distribution of energy resources, reduce the instability of the power system, and reduce the abandonment of photovoltaic and wind power. Flexible peak shaving is the adjustment of unit output to meet the load requirement of the power system.

Which energy storage technologies are suitable for flexible peak shaving?

The energy storage capacities of the electrode and solid electric heat storage boilers are insufficient to meet the energy demands of large coal-fired power units during flexible peak shaving. These three technologies are more suitable for deep peak shaving than for fast peak shaving.

Can China's coal-fired boilers shave fast?

The fast peak shaving capacity of China's coal-fired boilers is insufficient, and the primary challenge is the lack of energy supply capacity. For fast peak shaving, external energy storage system configuration techniques such as Ruths steam storage and molten salt thermal energy storage are more appropriate.



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