

Power station energy storage peak load regulation





Overview

What is the peak regulating effect of energy storage after parameter optimization?

According to the generator output curve and energy storage output curve, the peak regulating effect of energy storage after parameter optimization is better than that without parameter optimization.

Why is energy storage important in power system?

Energy storage is an important flexible adjustment resource in the power system. Because of its bidirectional flow of energy, it is very suitable to be used in power system as a peak regulation method.

What is the maximum load of a power system?

The maximum load of the power system is 9896.42 MW. The conventional units of the system mainly consist of 18 units of three types, with a total installed capacity of 7120 MW.

What are the parameters of energy storage device?

The parameters of the energy storage device are set as follows: $P_{INIT} = 0$, $T_A = T_B = T_C = T_{D'} = 0.5$ s, power control gain $K_{\Delta P} = 1$, speed control gain $K_{\Delta \omega} = 1$.



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