

Where is it suitable to build an energy storage power station

What is pumped storage power station (PSPS)?

The pumped storage power station (PSPS) is a special power source that has flexible operation modes and multiple functions. With the rapid economic development in China, the energy demand and the peak-valley load difference of the power grid are continuing to increase.

What is PSPS in energy storage?

It is a tool for power conversion and reserve. At present, the comprehensive efficiency of the PSPS is about 75% (the ratio of power generated to power consumed) in China, which is also called "using 4 degrees to produce 3 degrees". The PSPS is the best tool for energy storage.

What is pumped Energy Storage?

The PSPS is the best tool for energy storage. The pumped storage has the function of energy reserve, and it solves the problem of electricity production and consumption at the same time, and not easy to store. Thus, it can effectively regulate the dynamic balance of the power systems in electricity generation and utilization.

Should Chinese power systems develop pumped storage systems?

The result shows the urgency of developing the PSPS in Chinese power systems that have given priority to thermal power, and the energy resources need the wide-range optimal allocation within the system. The development cycle of the pumped storage is long, and at least 8-10 years are needed from the planning to the completion.

Which hydropower station has good load regulation capability?

But only the hydropower station with the annual regulation performance and above has good load regulation capability. In China, this type of stations that can be developed are becoming less and less. As to the CFU, the large-capacity one can also meet the demand of the power grid for load regulation in theory.

What is a PSPS hydropower station?

1. Introduction The PSPS is a special hydropower station, which can use the electricity to pump water up to the upper reservoir when the energy demand is low, and release the water back down to the lower reservoir to generate electricity when the energy demand is high.



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