

PDEOZE PowerContainer

Banduo solar Power Station Power Generation



Overview

The first step in creating a hybrid system that incorporates the adjustable hydropower station is selecting an appropriate scale of new energy. This study proposed a methodology for optimized design a.

What is banduo hydropower station?

Hydropower station Banduo hydropower station is a runoff (unregulated) hydropower station located in the upper reaches of the Yellow River, with a capacity of 360 MW. The dead normal water levels of Banduo reservoir are 2757 m and 2760 m, respectively, and the corresponding regulated storage capacity is 1.96×10^6 m³.

What is the ideal PV scale for banduo hydro-PV system?

As a result, 200 MW is the ideal PV scale for the hybrid Banduo hydro-PV system. Additionally, the feed-in tariffs of hydropower and PV in Qinghai Province are 250 CNY/MWh and 360 CNY/MWh respectively.

What are the output characteristics of the hybrid banduo hydro-PV system?

The output characteristics of the hybrid Banduo hydro-PV system under different typical scenarios. Serial number Daily minimum output (MW) Daily maximum output (MW) Daily average output (MW) Daily minimum output fluctuation (MW) Daily maximum output fluctuation (MW) Joint output standard deviation (MW).

What is the dead water level of banduo reservoir?

The dead normal water levels of Banduo reservoir are 2757 m and 2760 m, respectively, and the corresponding regulated storage capacity is 1.96×10^6 m³. Ref refers to additional variables of the Banduo hydropower station/reservoir.

How will the banduo hydro-PV complementary output be transmitted to Henan province?

The Banduo hydro-PV complementary output will be sent out through Banduo

hydropower transmission channel and then transmitted to Henan Province by UHV transmission lines.

What happens if a PV system reaches 140 MW?

On sunny, cloudy, and dusty days when the installed PV capacity reaches 140 MW, the hybrid system will experience PV power curtailments.

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Before the development of the hybrid system, it is essential to determine the optimal installed scale of PV power plant by combining runoff characteristics, PV output ...

On November 26, 2010, the first unit of the plant was put into operation, and on December 18, 2010, the second unit was put into operation, and in May 2011, its last generating unit was ...

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Banduo is a 360MW hydro power project. It is located on Yellow river/basin in Qinghai, China. According to GlobalData, who tracks and profiles over 170,000 power plants worldwide, the ...

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