Banduo Photovoltaic Power Station Power Generation

What is banduo hydropower station?
Hydropower station Banduo hydropower station is a runoff (unregulated) hydropower stationlocated 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 × 106 m3.

What is the ideal PV scale for banduo hydro-PV system?
As a result,200 MWis 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 is the optimum operation scheme of banduo-Yangqu cascade hydro-PV hybrid system?
The short-term optimal operation schemes of the Banduo-Yangqu cascade hydro-PV hybrid system A scheme with minimal residual load fluctuationis taken as the optimum operation scheme to reduce the output regulating frequency and ensure the safe power supply of auxiliary energy (thermal power).

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)

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 is the dead water level of banduo reservoir?
The dead normal water levels of Banduo reservoir are 2757 mand 2760 m,respectively,and the corresponding regulated storage capacity is 1.96 × 106 m3. Ref refers to additional variables of the Banduo hydropower station/reservoir.

Its primary objective is to harness the abundant solar energy resources in deserts for clean energy production while simultaneously preventing desertification through a multi-scale spatial ...

At the high altitude of 5228 meters in the "forbidden zone of life", a groundbreaking "world"s highest" photovoltaic power generation project was successfully connected to the grid ...

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On September 7, 2007, the preliminary construction of Banduo Hydropower Station started. On October 23, 2010, the power plant was lowered to store water. 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 connected to the grid.

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