

What is a power plant?

A power plant is assembly of systems or subsystems to generate electricity, i.e., power with economy and requirements. The power plant itself must be useful economically and environmental friendly to the society. The present book is oriented to conventional as well as non-conventional energy generation.

How much power does Wujiang Cascade hydropower plant produce?

The total power generation of the Wujiang cascade hydropower plants is 23,039 MWh. Among them, the daily contract power generation is completed at 3493 MWh, with a completion rate of 25.39%. This is due to the highly fluctuating day-ahead market price and an insufficient inflow of water.

How many MW of wind & PV power plants are installed in Wujiang?

According to the Planning on the Integration of Renewable Energy in the Wujiang River Basin, the planned installed capacities of wind and PV power plants integrated into the three cascade hydropower stations are 929 MW and 1950 MW respectively.

Which Xianfeng PV plant is a representative PV plant?

In this study, the Xianfeng PV plant which has been put into operation near the hydropower stations is chosen as the representative PV plant, and the planned PV plants are assumed to have the same meteorological conditions as the Xianfeng PV plant.

How can cascade hydropower plants improve power generation profits?

The generation scheduling plan obtained from the developed model is more accurate. With the reform of China's electricity market, the cascade hydropower plants' participation in the portfolio electricity market is an effective way to improve power generation profits and avoid risks.

How does a power plant work?

A power plant may be defined as a machine or assembly of equipment that generates and delivers a flow of mechanical or electrical energy. The main equipment for the generation of electric power is generator. When coupling it to a prime mover runs the generator, the electricity is generated.

The Suofengying Dam is a concrete gravity dam on the Wu River, 44 km (27 mi) northwest of Guiyang in Guizhou Province, China. It is located 35.5 km (22 mi) downstream of the Dongfeng Dam and 74.9 km (47 mi) upstream of the Wujiangdu Dam. The primary purpose of the dam is hydroelectric power generation and it supports a 600 MW power station. Construction on the dam ...

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