

# Annual average power generation of Fengtan Hydropower Station

What are China's hydropower development trends?

China is currently actively promoting the "integration of wind, solar, hydro, and coal power generation and energy storage" and building a smart grid of multi-energy complementary power generation. New technologies and new concepts are expected to continue to lead the world's hydropower development trends.

## 1. Introduction

When will Baihetan hydropower station be completed?

Baihetan Hydropower Station is still under construction, expected to be completed in 2022. Longyangxia Hydropower Station is the first large-scale cascade power station on the upper Yellow River. It consists of barrage dam, waterproof structures, and powerhouse. The dam is 178 m high, 1226 m long (including the 396-m-long main dam), and 23 m wide.

Why is Xin'anjiang a milestone in China's hydropower development?

Xin'anjiang is a milestone in China's hydropower development that marks China has become able to independently design and construct large-scale hydropower stations and manufacture hydropower equipment. Gezhouba Hydropower Station is the world's largest runoff hydropower station.

When did Ertan hydropower station start?

Ertan Hydropower Station is China's largest power station built and commissioned in the twentieth century. The construction began in September 1991 and ended in 2000, and the first generating unit started operation in July 1998.

How efficient is a hydropower plant in China?

The case study on the hydropower plant located in the Yellow River in China revealed that the operation efficiency reduced to 64.56% in the year 2000 from 75.89% in 1966. Fig. 7.7. Performance assessment system with different economic indicators .

What is the technological potential of hydropower?

The technological potential of hydropower is assessed based on the annual energy that could be generated under current technology irrespective of economic and other constraints . For example, in China, it has been estimated that around 10 MW of power can be produced from approximately 3886 rivers .

Hydropower Station (Fig. 1) covers 430300 km<sup>2</sup>, accounting for 91% of the basin area above the Jinsha River. The normal pool level of the reservoir is 825 m, ... storage capacity is 20.627 ...

The Fengtan Dam is an arch-gravity dam on the You River, located 48 km (30 mi) southeast of Zhangjiajie in Hunan Province, China. The purpose of the multi-purpose dam is flood control, irrigation, power generation

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and navigation. The dam has a power station with an installed capacity of 800 MW and provides water for the irrigation of 44 km (17 sq mi). Construction on the dam began in ...

ET is the first power station built on the Yalong River and the backbone power source of Sichuan-Chongqing Power Grid. Its hydropower generation accounts for about 1/3 of ...

It has been over 110 years since China's first hydropower station, Shilongba Hydropower Station, was built in 1910. With the support of advanced dam construction technology, the Chinese installed capacity keeps ...

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