

Title: Three Gorges solar Power Station Generator Set

Generated on: 2026-07-14 17:38:58

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How many generators does the Three Gorges Dam have?

The Three Gorges Dam is the world's largest capacity hydroelectric power station, with 34 generators: 32 main generators, each with a capacity of 700 MW, and two plant power generators, each with capacity of 50 MW, for a total of 22,500 MW.

How much power does Three Gorges generate?

Three Gorges uses Francis turbines with a diameter of 9.7/10.4 m (VGS design/Alstom's design) and a rotation speed of 75 revolutions per minute. This means that in order to generate power at 50 Hz, the generator rotors have 80 poles. Rated power is 778 MVA, with a maximum of 840 MVA and a power factor of 0.9.

What is the Three Gorges Project?

The Three Gorges Project has regulated and supplemented water for the middle and lower reaches of the Yangtze River for 2,732 days, with a total water supplement of over 360 billion cubic meters, helping ensure drinking water supply and irrigation in these areas.

How much water does the Three Gorges Dam supply?

Since the filling of the reservoir in 2003, the Three Gorges Dam has supplied an extra 11 km³ (2.6 cu mi) of fresh water to downstream cities and farms over the course of the dry season.

The turbine island for the Three Gorges Energy Xinjiang Hami Integrated Energy Demonstration Project utilizes a 100MW steam turbine model developed by Harbin Electric ...

This project is located in the Wutumeiren Solar Power Generation Base in Golmud City, Haixi Prefecture, Qinghai Province, with a construction scale of 1×100MW of molten salt ...

The project is jointly built by Hengji Energy Pulse, a member unit of the Chinese National Solar Thermal Alliance, and the state-owned enterprise ...

In the design and manufacture of the power station units for the Three Gorges Dam, domestic manufacturers have continuously promoted independent innovation and ...

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According to the project plan, the base will have an 8.5 GW solar plant and a 4 GW wind plant, along with supporting energy storage ...

The project's first hydropower generator unit began operation in July 2003, generating electricity. The project has intercepted floods nearly 70 times, demonstrating its ...

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OverviewPower generation and distributionHistoryComposition and dimensionsEconomicsEnvironmental impactFloods, agriculture, industryNavigating the damPower generation is managed by China Yangtze Power, a listed subsidiary of China Three Gorges Corporation (CTGC), a Central Enterprise administered by SASAC. The Three Gorges Dam is the world's largest capacity hydroelectric power station, with 34 generators: 32 main generators, each with a capacity of 700 MW, and two plant power generators, each with capacity of 50 MW, for a ...

According to the project plan, the base will have an 8.5 GW solar plant and a 4 GW wind plant, along with supporting energy storage facilities with a capacity of five gigawatt-hours ...

The PV section was completed and grid-connected by the end of 2024, while the thermal plant entered full operation in September ...

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