

<<长江三峡工程围堰蓄水期>>

图书基本信息

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内容概要

The Three Gorges Project (TGP) is a key backbone project for the flood control , navigation and water resources development of the Yangtze River . The TGP is located at Sandouping , near Yichang City of Hubei Province , in the Xiling Gorge of the Three Gorges reach on the trunk of the Yangtze River . It is 40 km upstream of the Gezhouba Dam . The Three Gorges Reservoir is designed to have a normal pool level of 175 m above sea level with a corresponding aggregated storage capacity of 39 . 3 billion m³ , and a flood control level of 145 m with a flood control capacity of 22 . 15 billion m³ . It will be of great significance to the flood control efforts in the middle reaches of the Yangtze River . The total installed capacity of the TGP will be 18 . 2 GW and the average annual output will be 84 . 7 billion kW · h .

The navigation conditions will be improved in the entire 600 km long channel in the reservoir area . The construction of the TGP began in 1993 , and the first stage cofferdam was closed in 1997 which cut out the Yangtze River and made it flow through a diversion channel excavated earlier around the dam site . The TGP began its impoundment on June 1 , 2003 , with the main dam and the cofferdam on the right-bank . On June 10 , 2003 , the water level at the dam was raised from the original 70 m (approx .) to 135 m above sea level . In the same month ; the five-step shiplock began trial operation . In July the same year , the output from the first turbine unit was synchronized to the national power grid . From then on , the Three Gorges Reservoir was operated for power generation and navigation . The upstream part of the third stage cofferdam was removed in June , 2006 . Since then , the reservoir water has been retained by the TGP Dam on its own . On September 20 , the pool level began to rise and finally reached 155 . 68 m above sea level on October 28 , with a corresponding aggregated storage capacity of 23 . 3 billion m³ . The period between June , 2003 and August , 2006 is referred to as the cofferdam impoundment period .

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