

## **Brief Introduction on Shuibuya Project**

### **Project Summary**

Shuibuya Hydropower Station is located in Badong County in the middle reaches of Qingjiang River. It is the dragonhead project in Qingjiang mainstream and the third pearl follows to Geheyan and Gaobazhou. It is 117km downstream to Enshi City and 92km upstream to Geheyan Hydropower Station. The project will be the major power source for peak load regulation in the Central China Power Grid. The installed capacity and annual output of Shuibuya Power Plant are 1,840MW and 3.98 billion kWh respectively. The project has strong regulation ability with a normal pool level of 400m and reservoir capacity of 4.58 billion m<sup>3</sup>. The project consists of concrete face rockfill dam, underground power station of diversion type, overflow spillway on the left bank, and empty tunnel on the right bank. The dam is 233m high, CFRD type, which is the highest of its kind in the world at present with a total volume of 15.64×10<sup>6</sup>m<sup>3</sup>. Shuibuya project is to be completed within nine and a half years according to the design. In order to have earlier benefit, the proprietor decided to have the dam be built and commissioned one year ahead of schedule, that is, the river to be closed in October 2002, the commissioning of the first unit in 2007 and the whole 4 units in 2008.