China

Shisanling Pumped Storage Power Station Project

Inside of Shisanling Pumped Storage Power Station

■Outline of Loan Agreement

Loan Amount/ Loan Disbursed Amount	¥13,000 million / ¥12,926 million
Loan Agreement	March 1991
Terms and Conditions	Interest rate: 2.5%, Repayment period: 30 years (grace period: 10 years)
Final Disbursement Date	April 1998

■Project Profile

The project was to construct an 800MW pumped storage power station on the outskirts of Beijing and was aimed at supplying electricity efficiently to meet the increasing required volume of power supply and rapidly growing peak power demand in the Jing-jin-tang area.

■Results and Evaluation

Before the project implementation in 1989, thermal power generation played a dominant role in the total power generating capacity (7,600MW) in the Jing-jin-tang area. At the completion of the project in 1997, however, the power supply composition in this area had shifted and hydroelectric power generation shared 11% of the total generating capacity (12,629MW) and the Shinsanling Pumped Power Station accounted for a large share (57%) of the hydroelectric generation capacity. This power station pumps water at night and generates during peak hours in daytime, enabling it to supply power to meet peak demand. The gap between minimum nocturnal demand and peak daytime demand in Jing-jin-tang area in 2000 was 5,200MW, and 15% of this gap could be covered by this power station (installed capacity 800MW). According to the executing agency, the Shinsanling Pumped Power Station plays important roles as an emergency back-up power source (standby generation) and frequency modulation besides the peak supply. The Shinsanling Pumped Power Station has been responsible for the operation and maintenance of this project since the completion of construction. Any problems cannot be seen at present with the aspects of its set up, skills and budget.