

## Thailand

### The Sirikit Hydroelectric Project Unit 4



Control board of Unit 4

#### Outline of Loan Agreement

|                                |                                                                            |
|--------------------------------|----------------------------------------------------------------------------|
| Loan Amount / Disbursed Amount | 4,404 million yen / 2,600 million yen                                      |
| Loan Agreement                 | January 1993                                                               |
| Terms & Conditions             | Interest rate 3.0%p.a.<br>Repayment period 25 years (Grace period 7 years) |
| Final Disbursement Date        | May 1998                                                                   |

#### Project Outline

In response to increasing demand for electricity, a fourth generator (Unit 4, 125MW) was installed at Sirikit Hydroelectric Power Plant (125MW × 3 units, total capacity: 375MW) in northern Thailand.

#### Results and Evaluation

Since the Sirikit Hydroelectric Power Plant (Japan's ODA loan project) started operations in 1974 with the installation of Unit 3 (Units 1 and 2 were completed in 1973), it has become one of the most important hydroelectric plants under the jurisdiction of the Electricity Generating Authority of Thailand (EGAT). Unit 4 (125MW), which was installed under this project, went into operation in 1995.

Demand for electricity in Thailand diminished during 1997-99 due to the currency crisis, however, in 2000 peak demand grew by approximately 9% as against the preceding year, and thus the project is evaluated as having contributed to improving reserve margins.

The energy mix in Thailand in 2000 consisted of 37% from natural gas, 5% from hydropower, and 12% from fuel oil, however, rising crude oil prices pushed the hydropower ratio up by 54% from the previous year, and the reinforcement of the hydroelectric plant has also been highly significant in this respect.

The generators installed at the Sirikit Power Plant are subject to periodic maintenance and appropriate repairs, and no particular problems are envisaged with project sustainability, inclusive of the financial status and technical capabilities of the executing agency.