

Hong Sa Power Project

Engineering Works of a Thermal Power Plant

**Client**

Electrowatt Engineering Services Ltd.
For Thailao Lignite Co., Lrd/ Thailao
Power Co., Ltd.

Project

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Location
Hong Sa
Laos

Project Period

Start March 1994
End May 1994

Project Description

The Hong Sa Valley is located in North-Western Laos, approximately 100 kilometers North-East of the Thai City of Nan. Thailao Lignite (TLL) has obtained a concession to develop a lignite mine and thermal power plant as an independent power producer.

Electrowatt has been retained by TLL to conduct a feasibility study for the power generation and transmission aspects of the project. As a subcontractor to EWI, Trans-Asia conducted the sitting and costing study for the raw water system. The raw water supply system is required to provide 15,000,000 cubic meters of water for process and cooling per annum.

Scope of Services

Trans-Asia prepared a project concept for the raw water supply for a 4 x 150 MW lignite-fired thermal power plant in Northwest Laos. The concept comprised of the following:

- The general location of the impounding and conveyance works
- The approximate size of the reservoir
- The arrangement and general shape of the dam and ancillary works
- A proposed alignment and layout and description of the conveyance works (open-channel, pipeline, pressure tunnel, pumping requirements)
- Identification of the approximate number of households requiring resettlement
- Power requirements for the raw water supply system
- An indicative estimate of construction and annual operating/maintenance costs
- A tentative project implementation schedules.

