

EGAT's Hydroelectric Power Plant Project

1. Project name : Upper Quae Yai # 1-4
2. Type of generation : Pondage
3. Description and scope of project

a) Location

This project will be located 135 km. upstream from the Srinagarind dam. The dam will be constructed across the Quae Yai River in Thong Pa Pum District, Kanchanaburi Province.

b) Dam and reservoir

The dam will be a rockfill, impervious clay core type; 187 m. high; 430 m. long. The crest elevation is 377.0 m. MSL. The reservoir has a storage level at 379 m. MSL at which the surface area is 137 square km.

c) Power plant

The power plant will be constructed on the right bank of the river to house 4 units of generator and vertical Francis turbine. The total capacity of the power plant is 580 MW and the annual energy generation is 1,168 GWh.

4. Project cost (Million Baht)

	FC	LC	Total
a) Preliminary works	0.00	275.39	275.39
b) Compensation, resettlement and environmental impact mitigation plan	0.00	528.92	528.92
c) Civil works	2,128.00	1,773.22	3,901.22
d) Hydraulic equipment	286.06	96.48	382.54
e) Electro-mechanical equipment			
-Turbine	377.58	46.16	423.74
-Generator	350.61	42.87	393.48
-Others	335.04	40.48	375.52
f) EGAT administration	0.00	187.68	187.68
g) Engineering consulting service	216.54	40.41	256.95
h) Import duties and taxes	0.00	511.17	511.17
Total	3,693.83	5,432.78	9,126.61

5. Tentative schedule

- a) Government approval : April 1988
- b) Bidding : January 1989
- c) Construction : September 1989
- d) Commissioning : November 1996 (# 1-2)
: May 1997 (# 3-4)