



Lamtakong Hydro Power Plant

POWER GENERATION PROJECT

Lam Ta Khong Hydro Power Plant is located on the Lam Ta Khong River between Sikhio district and Pak Chong district, in Nakhon Ratchasima province in Thailand.

The Lamtakong Jolabha Vadhana Pumped Storage Hydro Power Plant (unit 3 – 4) Project plays an important role in the power system, supplying peak power, and contributes to enhance power system operation.

The expansion project is design to double the pumped storage plant current output capacity. When complete, it will have a total generating capacity of 1000 MW (500 MW from two units installed in Phase 1 and 500 MW from two units installed in Phase 2).

Technical characteristics:

SDCEM provided starting and back-to-back disconnectors, generator phase-reversal and generator braking disconnectors in cubicles for the project in 2016. SDCEM also provided smart grid solutions “S-Solutions” to control & monitor disconnector position and prevention of mechanical failures of the unit.

SDCEM scope of supply :

Disconnectors cubicles

- 2 Generator Braking Disconnectors SB250FB
- 2 Excitation Transformer Disconnectors SC300
- 2 Starting disconnectors SC300
- 1 Back-to-back Disconnector S300
- 2 Phase-Reverse Disconnectors SC1000 (5 poles)
- 1 Station Service Transformer SC300RB



Operating Mechanisms

Universal Smart Drives MR41E

Control & Monitoring

- S-TORQUE – Prevention of mechanical failures
- S-POSITION – DS Position indicator / detector

Key data

Location	Thailand
Industry	Power Generation
Delivery date	2016
Rated voltage	24 kV
Owner	EGAT (Electricity Generating Authority of Thailand)
EPC	Voith Hydro Shanghai Ltd.
Commissioning date	2016

