

HEPP TEMENGOR Unit-1 Successfully Commissioned

InCONTROL Tech Sdn. Bhd. (formerly known as VA TECH SAT Sdn. Bhd.) together with **VA TECH HYDRO**, one of the world's leading suppliers of equipment and services for hydropower plants, has successfully commissioned Generating Unit-1 of the Temengor Hydro Electric Power Plant on schedule.

The complex modernization of the four (4) generating units of the 25-year old plant had to be completed in the very short timescale of only 19 months, executed by project teams from Switzerland, Austria, Indonesia and Malaysia.

The scope of the contract includes upgrading the four Francis hydraulic governors, electronic governors, the servomotors, the compressed air system for generator brakes, the generator static excitation systems, new additional auto synchronizers and a joint-controller system. When the remaining three (3) units are commissioned in the beginning of 2004 the plant is expected to deliver an improved output of 4 x 105 MVA. It will also extend the lifetime of the plant by reduced maintenance and operating costs.



Figure-1: Temengor Station



Figure-2: High Pressure Governor



Figure-3: Static Excitation System



Figure-4: Additional Synchronizer

HEPP Temengor, which is located in the State of Perak in northern Malaysia and connected to the high voltage grid of Peninsula Malaysia, is owned and operated by Tenaga Nasional Berhad (TNB), the national electric utility of Malaysia.