

Governor Refurbishment Successfully Completed

The Sultan Mahmud Storage Hydro Electric Power Plant (HEPP Kenyir) started operation in 1987 and is located North-East of Peninsula Malaysia in the State of Terengganu. Tasik Kenyir (the lake reservoir) is the largest man-made lake in SE-Asia with a size of 370 km², a catchment area of 2,600 km², with 340 islands and is part of the Taman Negara National Park.



Tenaga Nasional Berhad (TNB), the Peninsula Malaysia's National Electric Utility, awarded the contract for Governor Refurbishment to **inCONTROL Tech Sdn. Bhd. Malaysia (iTEC)**, in August 2005.

The rehabilitation of the 25 bar governor system for the 4 x 100 MW generating units has been completely designed, engineered, manufactured, shipped, installed and commissioned in close cooperation between iTEC, VA TECH Hydro Switzerland and TNB Generation.

The contracted scope of works included:

- Stability study for the load interaction between penstock, turbine and generators
- Dismantling the old system
- Complete new electronic governors (EG)
- Individual hydraulic governor actuators (GA) with external oil filtering and cooling system
- Replacement of all solenoid actuated directional control valves and related piping
- Pressure reduction station for turbine runner upper and lower seal cooling water
- Interface to existing unit controller, control room and NLDC (load dispatcher Kuala Lumpur)



Electronic Governor



Pressure Pumps



Acuator

Sincere congratulations to the entire project team, who has successfully completed every single generating unit before target time!