



## EGAT Research and Development Completed Project 2009

- A Study of Wind Resource Micrositing: LamTakhong, Ao Pai, and Lam Promthep
- Development of Software for Evaluation of Small Run-of-River Hydropower Project in Nan River Basin by using Geographic Information System
- Developing Prototype of Geographic Information System for Transmission Line Right of Way (R.O.W.) Management using Digital Airborne Inspection System with Remote Sensing Technology
- Prediction of PMF: Pilot Study for the Bhumibol Dam
- Development of Power Transformer Utilization and Maintenance Procedure to Maximize the Benefit (Phase 1)
- Concrete Structure Design to Reduce Vibration of Air Blower by Finite Element and Impact Test
- Development of Micro-Controller RTU for LAN and GPRS
- Application of Ground Anchors for Mae Moh Mine's Slope Stabilization
- Development of ternary binder system containing cement, limestone powder and fly ash by using Mae Moh fly ash with different free lime contents
- The study analysis of Ground Anchors for Mae Moh Mine's Slope Stabilization
- A Research for Eco-efficiency Comparison of Electricity from Renewable Energy and Fossil Fuel by using Life Cycle Assessment
- The Optimization of Namphong Power Plant Gas Turbine Compressor Blade Cleaning
- The study analysis and improvement of reagent feed system in the Flue gas Desulphurization Mae Moh Power Plant Unit 4-7 for optimization
- Design of High Voltage Disconnecting Switch using Finite Element Method
- Effect of Belt Tension on Stress Distribution of Drive Pulley Shafts of Lignite Belt Conveyor
- Development of Automatic Systems for Fault Analysis and Report Generation through Data Conversion and Integration of EGAT Fault Recorder Systems

- Development of a Simulator for Blackout Restoration
- Investigation of the suitable methods for reducing green house gas (CO<sub>2</sub>) including SO<sub>2</sub> , NO<sub>x</sub>, and PM from the EGAT's power plant
- The Research Project for Development 50 kW Prototypes Wind Turbine