

## Summary

The power generation and transmission projects in Thailand are planned and implemented by three state enterprises, i.e. the Electricity Generating Authority of Thailand (EGAT), the Metropolitan Electricity Authority (MEA) and the Provincial Electricity Authority (PEA).

For EGAT, who owns, maintains and operates power generation plants throughout the country, their existing power plants comprise 48 hydroelectric plants, 21 Thermal Power Plants, 2 Combined Cycle Power Plants, 45 Gas Turbine and 25 Diesel Engine Power Plants. Their electric system is divided geographically into four regions covering the whole area of Thailand. Projects under construction by EGAT comprises power plants using oil/gas and lignite as fuel. For future projects they are power plants utilizing oil/gas, hydro, lignite and coal.

Regarding transmission, EGAT has planned to construct 500 KV EHV system in Mae Moh, So Pai and Bang Pakong areas in addition to their conventional 230 and 115 KV system. Apart from the above mentioned projects, EGAT also has project of upgrading its system Control Centre.

For PEA, whose responsibility is providing electricity to consumers in the provincial areas and in the areas where electricity service is not covered by MEA, they are presently able to provide electricity to 41,460 villages which is equivalent to 76% of the total villages under their service areas. It is scheduled that at the end of 1991, about 51,900 villages or 95% of the total villages in PEA service area will be provided with electricity. The projects to be implemented by PEA under the Sixth Economic and Social Plan are the Power Distribution Reinforcement Project 4th stage (PSR IV), the Transmission System Dispatching Centre Project (TSD), the Distribution System Dispatching Centre Project (DDC), the Village Electrification Project Phase III (VEP III), the Normal Rural Electrification Project Phase II (NRE II), the Village Electrification in Tungkularonghai Project, the Mini Hydro Project (MPH) and the Wind Energy Project (WEP).

For MEA, whose responsibility is to provide electricity to customers in Metropolitan area and nearby provinces, they have already launched 5 services of the Power Distribution System Improvement and Expansion Program, each with a 5 year implementation period and was formulated in line with the National Economic and Social Development Plan. The Sixth Plan which will be effective from fiscal year 1987 to 1991 is the continuation of the fifth plan. They are grouped into 5 categories, i.e., substation, subtransmission line, distribution, vehicle and equipment and research and development.