

Preparation of Abstract for IERE TIS-Asia Meeting 2014

Title: Regional Power Transmission Interconnection ASEAN Countries

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Abstract

Due to the continuous rising economic growth, the power demand of Developing countries will be higher than the power supply because of the expansion of industrial, business and household sectors. When a country has a higher economic growth, the country has to develop not only power plants but also transmission lines in order to generate and supply enough power to cope with its demand. To continuously and reliably meet the growing demand for electrical energy, the country has to invest for the installation of additional generating capacities and transmission lines. As the ASEAN Economic Community (AEC) is approaching in 2015, the member countries are allowed to share and use the resources to maximum benefits. The energy trade and exchange among ASEAN member countries are the best solution since they reduce the construction of new power plants. As a result of poverty energy resources, especially in Thailand, the interconnection transmission system development among neighboring countries is necessary.

ASEAN Member countries, particularly countries in Greater Mekong Sub-region (GMS), have enhanced the cooperation with each other because of the network topography. In geographically, the lands of GMS countries are connected together making it easier to perform the power grid interconnection. In addition, a country with abundant resources, such as hydro, oil, and coal, can generate a huge amount of electrical power and supply them to neighboring countries, e.g., Lao PDR supplies power to Thailand through interconnection transmission lines. The resourceful countries, such as Lao PDR, Myanmar, etc., with low power demand should develop large power generations and supply them to the inadequate resource country with higher power demand; this factor will be the driver to develop the ASEAN power grid interconnection and the mutual benefits of both sides.

In this session presentation, it will illustrate how Electrical Generating Authority of Thailand (EGAT) prepares for the implementation of ASEAN Power Grid, especially the power grid interconnection among Thailand's neighboring countries. (316 words)

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