

4.2 Details on PEA's Future Projects

Details of the 3 projects mentioned earlier will be given in this section. They could be grouped into 3 categories; i.e., Power Transmission, Power Distribution and Power Generation Projects.

4.2.1 Power Transmission Projects

There is only one project of this kind under the present PEA's development plan.

PEA's Power Transmission Project

1. Project name : Transmission System and Substation Development Project
2. Project description

This project is designed to serve the demand in the central region covering 18 provinces with 33,00 square kilometers and a population of 6 million. These 18 provinces are known as the U-Shape area and they surround MEA's service area. Electricity consumption in the U-Shape area is quite high and is steadily increasing due to the government's policies on promoting the establishment of new businesses and industries together with some specific development programs such as the development of principal towns, the Eastern Seaboard Project, etc. Demand in this area is currently served by a 22 kV system which will be no longer suitable for supplying higher future demand. Therefore, PEA will consider upgrading the system voltage from 22 kV to 115 kV, constructing transmission lines and substations, as well as improving communication systems in order to be abreast with the load requirement.

3. Status of project

Construction of 115 kV system and substations needs well qualified personnel having high experiences in system analysis and planning. At this stage, PEA has sought assistance from the United States of America in sending experts to PEA to undertake the feasibility study of the project before committing further actions.

4. Project cost

The project cost will be estimated after the completion of the feasibility study.

5. Tentative schedule
 - a) Feasibility study : 1987 to 1988 (14 months)
 - b) Construction : 1990
 - c) Commissioning : 1992