

- a) Power Distribution System Reinforcement Project (PSR),
- b) Electric Distribution System Extension to Small Diesel Power Plants Project (EDE),
- c) Tambon Electrification Project (TEP),
- d) Village Electrification Project (VEP) and the Renewable Energy Project.

During the past 10 years, PEA has expanded the distribution system considerably and has been able to provide services to more customers with acceptable efficiency. The PEA's highlights in this period are :

-The increase of high tension distribution lines from 18,736 circuit-km to 89,369 circuit-km, representing a growth rate of 19 % annually.

-The increase of peak demand from 640.1 MW to 1,953.4 MW, representing a growth rate of 13 % annually.

-The increase of energy demand from 2,875.5 GWh to 9,440.7 GWh, representing a growth rate of 14 % annually.

-The increase of the number of customers from 927,298 to 4,054,200, representing a growth rate of 18 % annually.

At the end of 1985, PEA was able to provide electricity supply to 37,094 villages which was equivalent to 68 % of the total villages in PEA service areas. Up to the present, the electrified villages are approximately 76 %.

The 5th NESDP (1982 - 1986) emphasised on the industrial reorganization, decentralization of industrial plants to provincial areas in parallel with promoting specific development programmes such as principle towns development, eastern seaboard development, etc..

Similarly, the 6th NESDP (1987 - 1991) concentrates on the rural development, specific area development programmes and decentralization of industrial plants. The plan has also set a target in upgrading quality of life which is largely related to provision of basic services having energy especially electric energy as the key factor.

In accordance with the 6th NESDP, it is anticipated that the energy requirement in PEA service areas will substantially increase. It is estimated that the peak demand will be 3,240 MW, the energy demand will be 16,630 GWh and the total number of customers will be 6 millions by the end of the 6th NESDP (1991). These represent the growth rates of 9 %, 10 % and 7 % respectively.