Electricity

Harnessing electrical power for industrial, commercial and domestic uses is a specialty of Canadian companies.

immediate power shortages being experienced in several states. Gas turbines can often be supplied and installed in a relatively short period. The export of such Canadian made systems has made possible low cost electrical power for more than thirty countries throughout the world.

Expertise in long-distance transmission of power

Canada has also gained expertise in long-distance transmission of power, and Canadian engineers were among the first to develop the use of increasingly higher voltages for primary transmission lines. In 1965, a 735 KV system was energized linking the large power sites of northern Quebec with load centres in the south. The even larger Churchill Falls project in Labrador was later connected by another 735 KV system adding more than 5,000 MW to the Hydro Quebec network.

Canada's very large and spread out power systems have demanded complex load control systems. To integrate effectively the outputs from isolated stations into the over-all system, Canadian companies have developed high-quality remote control equipment.

Sophisticated computer-based load forecasting techniques that take into account hourly, daily, weekly and seasonal load requirements have been developed by major Canadian utilities. These, together with computerized load flow programmes and relative fuel cost considerations, are used to determine the most efficient use of resources available to meet the constantly changing load requirements.

Novel Canadian designs allow transmission of high voltages

In 1972, a 320 MW a synchronous link composed of two high voltage direct current (HVDC) converters connected back-to-back, was commissioned at Eel River, New Brunswick, to link that province's power system with Hydro Quebec. The Canadian designed and manufactured converters were the first commercial-sized units employing solid state switching devices to be installed anywhere in the world.

The Winnipeg based firm, Teshmont Consulting Limited, was involved in the initial stages of this project and also worked on the 1200 MW Nelson River project in Manitoba. This project employs a 450 KV transmission line more than 550 miles (885 km) long to carry electric power to Winnipeg in the southern part of the province. Teshmont is at present sharing their experience of HVDC and power systems planning with India's Central Electricity Authority under the auspices of the World Bank.

Electrical power generation, transmission and distribution is vital to today's way of life and Canadian firms are anxious to introduce their products and services in this field to broader world markets. ●

Ontario Minister Visits India

Industry and Tourism Minister for the Province of Ontario Mr. Claude Bennett (far right) meeting Commerce Minister Mohan Dharia during his recent visit to New Delhi.

Mr. S.P. Mandelia, President of the Indo-Canadian Trade Group welcomes Ontario Industry and Tourism Minister Bennett to New Delhi at a luncheon sponsored by the Indo-Canadian Trade Group and the Indian Council of Foreign Trade.

The Honourable Claude Bennett, Minister of Industry and Tourism for the Province of Ontario, Canada visited New Delhi from October 7 to 11 to promote more two-way trade and explore areas of common interest in the field of joint ventures and collaboration between Indian and Ontario firms in third countries. During his stay, Mr. Bennett met with Commerce Minister Mohan Dharia, Tourism and Civil Aviation Minister P.L. Kaushik, Steel and Mines Minister B.P. Patnaik, the Mayor of Delhi R.K. Gupta, government officials and representatives of the Indo-Canadian Trade Group. Mr. Bennett was the guest of Minister of State for Commerce, Arif Beg, at a Luncheon on October 10. ●