

Companies Actively Involved In Indonesia's Railway Development

Indonesia's first international exhibition devoted to railway products and services was held in Jakarta. The five day event also included a technical conference as well as a meeting forum for railway managers from other ASEAN region countries.

The Canadian stand included representation and exhibits from Canadian Pacific Consulting Services, the Urban Transit Development Corporation (developers of the Advanced Light Rapid Transit System now operating in Vancouver), the Diesel Division of General Motors of Canada Ltd., Hawker Siddeley of Canada and the Lavalin Group of Engineering Companies. The Canadian Government also participated with an information booth and small exhibitors lounge area which was outfitted to resemble a dining car complete with scenes of Canada which were visible from the diner's "windows".

Canadian companies are very active in Indonesia's railway developments particularly in the refurbishment and upgrading of the South Sumatra railway which will allow the production of the Bukit Asam coal mines to reach tidewater at Tarahan on the Sunda Strait. Fifteen General Motors locomotives have recently been supplied to Indonesia and will be used to haul coal in Hawker Siddeley coal wagons on rail supplied by Sydney Steel of Canada to the new port in South Sumatra. Work is also starting on a \$34 million railway telecommunications project which was awarded to International Aeradio Ltd. of Toronto after intense international competition.



Canada's railway expertise on show during Indorail '86.

Canadian Pacific Consulting Services (CPCS) are providing technical and project management assistance to the Indonesian State Railways on the Bukit Asam railway project. In addition, CPCS have responsibility for training of both telecommunications technicians and railway operating and maintenance personnel in all aspects of the new equipment and techniques which are being introduced on this first "heavy-haul" rail route in Indonesia. CPCS's extensive use of the Bahasa Indonesian language in all of their

training programs and in the new telecommunications school which has been constructed in Bandung, West Java, was demonstrated at Indorail. Their use of the Indonesian language in their demonstration attracted much interest from the numerous officials, railway staff and general public who attended Indorail '86.

As well as Bukit Asam, Canadian firms are actively completing work on other railway projects in Indonesia as well as setting their sights on urban rapid transit projects which are planned for Indonesia.

MALAYSIA

Engineering Assistance For Hydro-Electric Project

Recently, Canadian High Commissioner von Nostitz participated in the opening ceremony of Kenering/Bersia Power Expansion Project presided over by His Highness The Sultan of Perak, and Minister of Energy, Telecommunications and Posts Dato' Leo Moggie. This power scheme which also includes Temengor Hydro-Electric Station is located in the northern part of the State of Perak. Canadian engineers from Shawinigan/Lavalin International have had extensive involvement with all three projects over the last 20 years.

This triple scheme worth about \$300 million is harnessed to the Perak River. It consists of three concrete gravity dams with a total output capacity of 300 megawatts. Bersia, the most recently

finished project of the scheme, has now just been hooked up to the national grid power system. It also houses the computer control centre which monitors the Temengor and Kenering dams.

Feasibility Study

Initial feasibility studies for these projects were made by Shawinigan Engineering in conjunction with a Canadian International Development Agency loan of \$7.5 million for Bersia/Kenering and a separate loan of \$5.5 million for the Temengor project. Shawinigan is now also working on the Sungei Piah Tunnel Dam which is another component of this complex hydro-electric project.

The performance of the Perak River hydro-electric scheme is a testimony to

Canadian design and engineering. Apart from obvious benefits of providing energy to the national grid, this hydro-electric scheme has brought other benefits to the state. The dam reservoirs for Bersia and Kenering are enhancing the flood/storage capacity of the strained Temengor Reservoir. More effective river regulation flows have provided better irrigation of agricultural land. The reservoirs have drowned out shallow sections of the river and thereby improved local navigation above the dam sides. In addition to the Federal Government providing annual revenues to Perak's treasury, the extensive improvement of a road system has created new opportunities for recreation and tourist attractions in the state.