

Technical Visit to Amcorp Perting 6MW Mini Hydropower Plant

INFORMATION AND COMMUNICATIONS TECHNOLOGY SPECIAL INTEREST GROUP

reported by



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Group photograph

It was an early start. At 6.30 a.m., the coach we were in, departed from Bangunan Ingenieur in Petaling Jaya and at 8.15 a.m., we arrived at Bentong Town Mosque. Waiting to meet us at the mosque was Encik Ahmad Said Gajali who took us in 3 four-wheel vehicles to the Amcorp Perting 6MW Mini Hydropower Plant.

POWER STATION DATA

Down water pipe from intake diameter = 1.6 metres. Water flow = 180 cubic metres per minute. Water head height = 160 metres. 3 Turbines type Turgo with 2 x 500 mm diameter inlet water pipes. Turbine speed = 724 rpm. Output voltage = 690 volts. Step up to 11 kV. Output Power = 6 MW total.

THE POWER PLANT

The Sg Perting Mini Hydropower Plant is located at Sungai Perting, Bentong, Pahang. It is an award-winning project



3 Turbines in Power Station

by Amcorp Perting Hydro Sdn. Bhd., a wholly owned subsidiary of Amcorp Properties Berhad.

The mini hydro project is located in the Bukit Tinggi forest reserve, at the Chamang Waterfall recreational area. The project utilises the head differential and river flow of Sungai Perting to generate electrical energy. The hydropower plant delivers 6 MW of power to TNB via the interconnection point at SSU Kg. Baru under the Renewable Energy Programme.

The electricity generated by the plant will displace part of the electricity generated by the grid dominated by the conventional fossil fuel-fired power plants. This will prevent further environmental pollution caused by the burning of such fuel. In terms of economic sustainability, by using water – a free, sustainable and indigenous resource – to generate renewable energy, this mini hydro project helps lessen the nation's dependency on depleting fossil fuel especially as prices have risen sharply over the years. ■