



IEEE Canada



IEEE Hamilton Section

IEEE Tour of IESO Main Load Despatch Center in Clarkson

Thursday June 28, 2007 @ 3:00pm

- Space is limited to 20 people
- Photo ID and a signed non-disclosure form is required

RSVP by June 14 - **David Hepburn** – dehepburn@sympatico.ca

Background Information:

Total installed capacity in Ontario is about 30,000 MW. With about 75% owned and operated by Ontario Power Generation (OPG). The remainder is owned and operated by various commercial enterprises, of which the Bruce Nuclear Power Co. is by far the largest. Total peak demand on a hot summer's day is about 25,500 MW. Hydro One owns and operates all EHV and HV transmission lines in the province.

The Independent Electric System Operator (IESO) is responsible for the real-time operation of the whole Ontario system. Responsibilities include determining how much generation is required on an hour-to-hour basis, and to obtain that generation at least cost (cents/kW.h), either from OPG, Bruce Power, and other operators (including imports if necessary).. Also included is a close supervision of all EHV and HV lines operated by Hydro One to ensure that no lines are overloaded and that equipment may be safely taken out of service for maintenance. It is to be noted that since Ontario is connected to numerous other systems in the North East - Consolidated Edison, Niagara Mohawk, Detroit Edison etc., the total synchronized capacity of the interconnected system is truly enormous, probably in excess of 200,000 MW.

Security is tight at this site so photo ID and a signed non-disclosure statement will be required of each person entering. Since talking is not permitted inside the main control room, there will presumably be a briefing session in an adjoining room before entering.