



**Hydro
Québec**

TransÉnergie

The International Conference on Power Systems Transients

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Hydro-Québec TransÉnergie

- **North American regulatory environment**
- **Functional separation of generation, transmission and distribution**
- **Open, non-discriminatory access to transmission**
- **Northeast Power Coordinating Council (NPCC) standards**



- 506 substations
- 32,487 km of lines (11,422 km-735kV)

IREQ

- High Voltage Laboratory
- Full scale testing
- Up to ± 1200 kV DC or 2100 kV rms AC.



Involvement in Simulation

Simulation and Analysis of Power System Transients

- EMTP-RV
- Hypersim
- SimPowerSystem



New Network Challenges

- **New sources of energy**
- **Decentralization**
- **Intermittence**
- **Network stability**



Enjoy Montréal and the conference

