

2008 IEEE Conference on Electrical Insulation and Dielectric Phenomena

Site visit of Hydro-Québec's Energy Technologies Laboratory (LTE), October 28, 2008.

Hydro-Québec's Research Institute: A Leader in Technological Innovation

Hydro-Québec's research institute, based in Varennes, near Montréal, cordially invites you to visit its energy technologies laboratory in Shawinigan, Québec. Known as the LTE (*Laboratoire des technologies de l'énergie*), this facility is an innovative force in energy efficiency and offers a wide range of equipment and test benches, some of which are unique in North America. Staffed by a multidisciplinary team of some 40 researchers, engineers and technical support personnel, it specializes in four areas: energy performance of buildings, electrotechnologies and processes, integrated energy systems, and energy use engineering.

What will you discover during your visit?

Your visit will focus on the following themes:

- **Building energy use**

The LTE develops solutions to improve the energy efficiency of buildings. For example, you'll find out about the latest geothermal and heat storage systems and learn how heated windows operate.

- **Distributed generation and its integration into the grid**

We'll tell you about our ongoing projects in the areas of farm-based power generation and microturbine use.

- **Electrotechnologies for small and medium-sized companies**

Using the LTE's infrared, induction and high-frequency test benches, we'll demonstrate electrotechnology applications in various sectors of interest for small and medium-sized companies.

- **Electrotechnologies for large industrial companies**

The LTE is also active in the electrification of industrial processes. You'll get a first-hand look at technologies we've developed to enhance operations in metallurgy, electrochemicals, and pulp and paper.

We look forward to welcoming you in large numbers.