



Institut de recherche



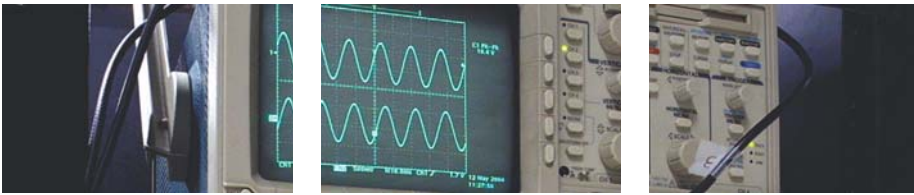
For all your power system modeling and simulation needs

The Power System Simulation Laboratory has over 30 years experience in power system simulation. With leading-edge simulation technologies that are among the most advanced in the world for studying transmission and distribution systems. High-tech tools used for real-time laboratory, field and in-plant testing and evaluation of equipment performance. On-line simulation demonstrations at your disposal, at all times, wherever you happen to be. Significant advantages for design and operation of transmission and distribution systems.

Do business with a world leader

To help meet all your power system modeling and simulation needs, our laboratory offers a wide range of specialized and independent services fully suited to your technological and business requirements. Whether the services involve studies, testing, consultation, or model development, our experts will come up with the best solutions. Do business with an industry leader: Hydro-Québec's research institute's Power System Simulation Laboratory.





More than testing services...
solutions!

One of the world's state-of-the-art laboratories

The power system simulation laboratory is also equipped with an all-digital real-time simulator known as "Hypersim." Based on SGI computer technology, which comprise powerful computers with a parallel architecture, Hypersim is able to represent large-scale networks and interface them with control systems, protective relays and more complex systems such as AC-DC converter controllers.

Integrating a real-time simulator (Hypersim) and off-line simulation software, the Laboratory, one of the most sophisticated of its kind in the world, is able to carry out a wide range of studies to help in transmission and distribution system design and operation.

Specialized services and high-tech solutions

■ Power system studies

Transmission and distribution system studies, more specifically the analysis of their behavior and of the various phenomena observed.

■ In-situ validation tests (new service)

The portable Hypersim simulator offers an all-new range of simulation services for in-situ validation throughout the world. It is now possible to evaluate, both in the field and in the plant, the real-time performance of power system equipment as well as the impact of their integration.

■ Development of models

To meet its clients' various power system simulation study and testing needs, the Laboratory develops models, in particular electrical components found on power systems.

■ e-simulation (new service)

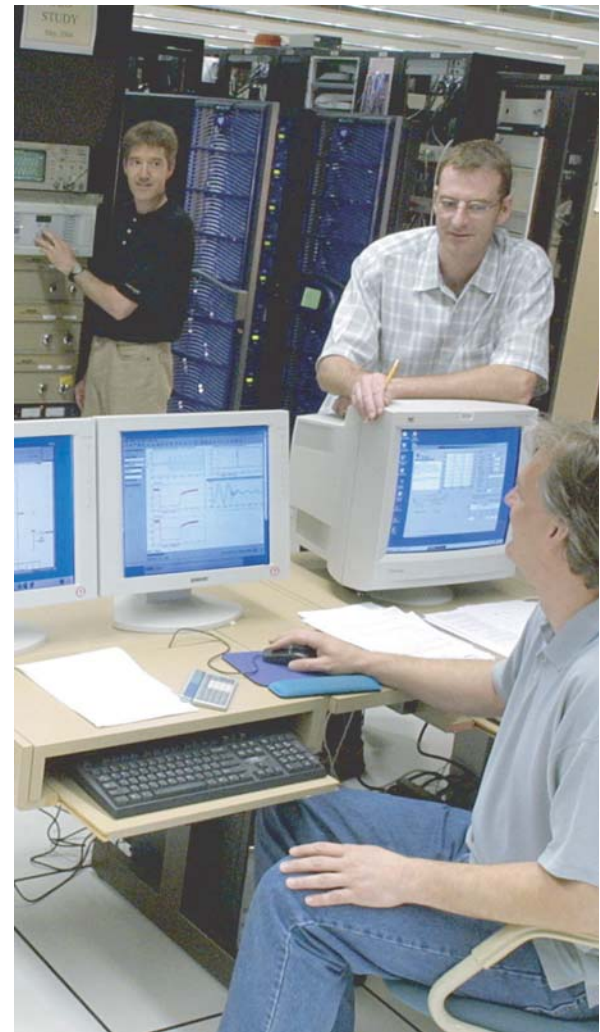
The laboratory offers its clients a computerized platform for testing, and on-line simulation demonstrations. This standalone interactive e-simulation tool is designed for training, e-marketing and remote simulation.

■ Consultation and training

Backed by our specialists' know-how and solid expertise, we offer you consulting services for all your simulation needs, wherever you are in the world. We also offer training on simulation systems such as Hypersim, Matlab, and SimPower-Systems.

■ Simulation system development

Our specialists handle the development and upgrading of our simulation technologies both: Hypersim, the hybrid simulator, and SimPowerSystems.



For more information about our services, please contact:

Laboratoire simulation de réseaux
Institut de recherche d'Hydro-Québec
1800, boul. Lionel-Boulet, Varennes (Québec) Canada J3X 1S1
Telephone: (450) 652-8016
Fax: (450) 652-8180
E-mail: lsr@ireq.ca
www.ireq.ca