

# IEEE Power Engineering Society 2006 General Meeting

## Call for Papers

**Submission Deadline for Full Papers: 5 December 2005**  
(Abstracts are not accepted)

The IEEE Power Engineering Society (PES) 2006 General Meeting will be held 18 - 22 June at the Palais des Congrès in Montréal, Quebec Canada. This premier power engineering conference will bring together power engineering practitioners and academics from around the world. The aim of the conference is to provide an international forum to promote, share and discuss issues and developments with acknowledged experts in the field of electrical power engineering.

### Theme

***Innovation and Reinvestment in Power Infrastructure***

### Preferential Topics

#### ***Critical Infrastructure of the Power System***

Aging infrastructure issues; Integrating new technology with old technology; Substation automation including cyber security issues; Appropriate communication infrastructure; Broadband over power line, Wireless application; Economic aspect of loss evaluation and equipment efficiency; Building environmental improvements into infrastructure renewal (social and natural environment); Power market economics and electricity restructuring; Electrification of developing countries; The future of power engineering research, education and careers.

#### ***Integrating New Sources of Energy in the Power System***

Issues in the design, application, operation, control and maintenance of various technologies for power generation (tidal, wind, solar, advanced nuclear reactors, clean coal technologies, gas turbine, geothermal, biomass, fuel cells, superconductor, energy storage, dispersed generation); Issues with increasing fault current levels; Voltage control and reactive power issues; Impact on system dynamic performance and on system operation; Environmental aspects (pollution control; global warming; energy & environment policy).

#### ***Design for Reliability***

Tools for predicting performance of power systems and related equipment; Analytical techniques, dynamic simulation and modeling of the power system and equipment; Innovative measuring techniques for protection, monitoring and testing; Use of phasor measurements; Control for improved operation; Multi-agent system and artificial intelligence; Advances in SCADA systems; Impact of harmonics and power quality issues; Innovating with power electronics; Compactness and new equipment design; Distribution reconfiguration; Load understanding: demand side response and uncertainties

**Submission Requirements:** Full 6-8 page papers must be prepared in accordance with the procedures outlined in the PES Authors Kit, available on the PES web site <http://www.ieee.org/power>. Full papers must be submitted to the on-line submission and review site; a link to the site will be available from the PES home page on or about 21 October 2005. All papers must be submitted by 05 December 2005. Authors will be advised via email of acceptance or rejection of the paper on or about 31 January 2006. If revisions are required, authors will be notified prior to that date. At least one author of each paper must register for the meeting and pay the appropriate fee before an accepted paper will be released for publication in the *2006 PES General Meeting Proceedings* or scheduled for presentation during a technical session. *Note: Registration deadline for authors may be earlier than the general registration deadline.*

**Additional information** about the meeting will be posted as it becomes available at <http://www.ieee.org/power>