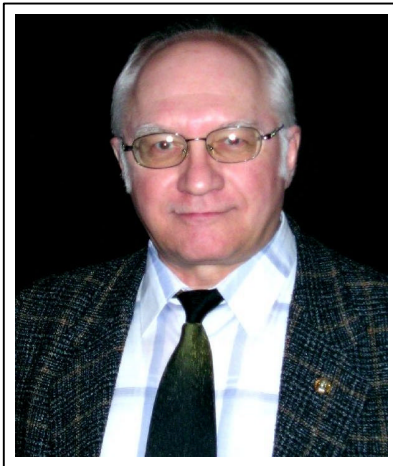


Blackout Development Mechanisms and Emergency Control System against Power System Blackouts

ABSTRACT: Emergency control is an inherent part of operating control of electric power systems. The presentation describes the experience gained by the Unified Energy System (UES) of Russia, its emergency control arrangements components. The UES control system represents a hierarchical structure dispatch centers with a clear separation of the all-system and local normal and emergency grid control responsibilities. In the UES emergency control system there are several "lines of defense" starting with the preventive arrangements and operating procedures and ending with local automatic protection devices.

New challenges for emergency control concept depending on restructuring and liberalization of electricity industry are discussed. Some ideas for emergency control system development in a market environment are suggested.



SPEAKER: Nikolai Voropai, IEEE Fellow, Director of Energy Systems Institute, Russian Academy of Sciences, Irkutsk, Russia.

His research interests include: modeling of power systems, operation and dynamics performance of large power grids; development of national, international and intercontinental power grids; reliability and security of energy systems, power industry restructuring.

Prof Voropai is the Head of the Department at Irkutsk Technical University, and is the author of more than 390 scientific publications.

Venue:

**CSIRO Auditorium,
Castray Esplanade,
Battery Point, Hobart**

Time:

5:30pm – 6:30pm

Date:

**Wednesday,
18th March 2009**

There is no admittance fee for this talk and non-IEEE members are also welcome.

For more information, contact:

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Greg Timms (Greg.Timms@csiro.au)

Another opportunity to hear Prof Voropai speak:

He will give a presentation titled "Multi-Objective Game Approach for Electric Power System Expansion Planning" on Tuesday, 17 March, 12-1pm, at the Engineering Lecture Theatre, University of Tasmania. All are welcome.

About the IEEE, and the newly formed IEEE Tasmanian Sub-section

A non-profit organization, IEEE is the world's leading professional association for the advancement of technology. Through its global membership, IEEE is a leading authority on areas ranging from aerospace systems, computers and telecommunications to biomedical engineering, electric power and consumer electronics among others. It presently has more than 375,000 members including nearly 80,000 student members in more than 160 countries.

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