

*WORKSHOP
ON
THREAT OF VOLTAGE INSTABILITY
IN POWER SYSTEMS
TVIPS-2009*

DECEMBER 8-10, 2009



Organized by

Department of Electrical Engineering
Institute of Technology, Banaras Hindu University
Varanasi-221005
Uttar Pradesh (INDIA)

In collaboration with

Industry Institute Partnership Cell
Institute of Technology, Banaras Hindu University
Varanasi-221005
Uttar Pradesh (INDIA)

About Institute of Technology, BHU

Banaras Hindu University, a temple of learning of international repute, is situated in Varanasi, the only living holy city of the world of more than ten thousand years history of Uttar Pradesh. This creative and innovative university was founded by the great nationalist leader, Pandit Madan Mohan Malviya, in 1916 with cooperation of great personalities like Dr Annie Besant, who viewed it as the University of India. Banaras Hindu University was created under the Parliamentary legislation - B.H.U. Act 1915.

Institute of Technology, like all other Faculties and Departments of the Banaras Hindu University, also owes its existence to the far-sighted vision and relentless efforts of its founder Mahamana Pandit Madan Mohan Malviya. Since its formation, the Institute of Technology has not only developed as a premier professional educational institution producing graduate engineers with foolproof sound scientific and technological background, but has grown into a Centre which provides versatile postgraduate training and conducts advanced research in Engineering and Technology. A large number of students from foreign countries like the U.S.A, the countries of Europe, Asia, Middle East, Africa etc., come to study here. The university has taken a leadership role in promoting new ideas, the spirit of integration of the world, and cultivation of intellect and culture. Banaras Hindu University is small virtually the universe in microcosm. A large number of alumni of the Institute are occupying top positions in many leading utilities, industries, educational institutions and research establishments in India and abroad.

Objective

Modern power system networks are large and interconnected. Power systems have been restructured in many parts of the world to create competition between different power producers. This has resulted into increased complexity and emergence of several new threats.

Power system instability has been considered as an important threat for researchers and utilities since 1920. Traditionally, *power system stability* meant maintenance of synchronous operation between different generating units. *Voltage instability* has been considered as a new type of instability since last three decades. Several incidences of *voltage collapse* resulted from *voltage instability*, have been observed in different parts of the world. *Voltage instability* may occur in heavily loaded and stressed power systems. The restructuring of power systems may create new problems such as reduced *Available Transfer Capability (ATC)* and *congestion* of some of the transmission lines. This may further reduce *voltage stability margin*.

This workshop is meant to interact and share knowledge with people working in similar areas to tackle the challenge of *voltage instability*.

Topics to be covered

- Concept, causes and remedial measures against voltage instability.
- Estimation of voltage stability in power systems.
- Tools for assessment of voltage stability.
- Control strategies for voltage stability enhancement (including the role of FACTS controllers).
- Maintenance of voltage stability in competitive electricity market environment.

CONVENER

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Speakers

The experts for delivering lectures will be from IT BHU, leading institutions such as IITs, IISc Bangalore, NITs and utilities.

Who can participate?

- Faculty from academic institutions
- Scientist from R & D organizations
- Engineers from utilities
- Research scholars

Venue

Department of Electrical Engineering

Institute of Technology

Banaras Hindu University

Varanasi (INDIA)

Registration Fee

Faculty from academic institutions / Scientist from R & D organizations Rs.3000/

Engineers from utilities Rs.6000/

Research scholars Rs.1000/

Registration fee include charges for registration materials, breakfast, lunch and dinner, but exclude travelling expanses & accommodation charges.

Registration fee is to be deposited in the form of a demand draft in favour of TVIPS-2009 payable at State Bank of India, BHU branch, Varanasi.

Registration fee will be returned back to the candidates not selected for the workshop.

Deadlines

Submission of completed application form along with required demand draft (photo-copy of application form is also acceptable) **Saturday, 31st October 2009**

Intimation about selection or otherwise to the participants

Saturday, 7th November 2009

Duration of the workshop **Tuesday, December 8 – Thursday, December 10, 2009**

Website

Details about WORKSHOP available at

[http:// www.itbhu.ac.in/conferences/eee/TVIPS/TVIPS-2009.pdf](http://www.itbhu.ac.in/conferences/eee/TVIPS/TVIPS-2009.pdf)

Accommodation

Accommodation may be booked in the institute and university guest houses on prior request subject to availability. Accommodation charges are to be paid by participants themselves.

Correspondence Address:

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The holy city of Varanasi, known as the city of temples and learning, is a place of great historical and cultural importance. This religious capital of India is situated on the banks of the holy river Ganges and is presided over by Lord Shiva. It is the heart of India and an epitome of the synthesis of cultures, religions and races. The river-front of the city is decorated by hundreds of well built ghats which is a unique feature. It will be a pleasant time to be in holy city of this country. The days should be comfortable and sunny. The temperature should range between 10-30°C.

REGISTRATION FORM

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Organized by IT BHU, Varanasi

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Dr. M. K. Verma
Convener, TVIPS-2009
Department of Electrical Engineering
Institute of Technology
Banaras Hindu University
Varanasi-221005
Uttar Pradesh (INDIA)

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We are pleased to bookpage advertisement space in the Proceeding to be brought out during **WORKSHOP ON THREAT OF VOLTAGE INSTABILITY IN POWER SYSTEMS TVIPS-2009** at IT, BHU during 8th -10th December 2009.

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