WORKSHOP

Smart Grids, Renewable Energies and Techniques

School of Electrical, Electronic and Computer Engineering
The University of Western Australia

Blake's Lecture Theatre 5 November 2012

INTRODUCTION

The Second Workshop on 'Smart Grids, Renewable Energies and Techniques', organised by the School of Electrical, Electronic and Computer Engineering, The University of Western Australia, will be held in Blaker's Lecture Theatre on 5 November 2012. The First Workshop, held on 8 August 2012, was well received by 70 participants from industry and academia. The aims of the workshops are to disseminate ideas and techniques for the development of modern electricity supply systems such as smart grid and to provide a forum for discussions and experience sharing with overseas experts.

This workshop is supported by the Faculty of Engineering, Computing and Mathematics, UWA, Western Power Corporation, Horizon Energy, State Grid Corporation of China, North China Electric Power University, Hongkong Electric, CSIRO, University of Newcastle, IEEE Section WA, IEEE Power and Energy Engineering and Power Electronics Chapter WA and IEEE Systems, Man, and Cybernetics Society Technical Committee on Intelligent Power and Energy Systems. Participation in the workshop is free. Interested engineers, academics, research students and IEEE members are welcome.

REGISTRATION

Registration: by Tuesday 30th October 2012 (first come, first serve until vacancy filled)
Email: admin-eece@uwa.edu.au

Enquiries: Administration Office, School of Electrical, Electronic and Computer Engineering
PH: 08 6488 3106 Email: admin-eece@uwa.edu.au
PROGRAMME    ( Subject to alteration)

Morning Sessions

9:15 am - 9:25 am:  Welcome Address
Winthrop Professor Gregory Ivey  
Deputy Dean (Research), Faculty of Engineering, Computer and Mathematics  
University of Western Australia

9:25 am - 9:30 am:  Introduction to Workshop
Winthrop Professor Kit Po Wong  
School of Electrical, Electronic and Computer Engineering  
University of Western Australia

9:30 am - 9:45 am:  Smart Grid Research in CSIRO
Mr Mark Paterson  
Manager, Smart Grid Partnerships  
CSIRO, Australia

9:45 am - 10:30 am:  Smart Grid in China
Professor Loi Lei Lai  
Director of Energy Strategy, Planning, Policy Support and R and D Centre  
State Grid Energy Research Institute  
Beijing  
China

10:30 am - 11:15 am:  The Dynamic Performance of PMU and Its Potential Applications
Professor Tianshu Bi  
Executive Director of the State Key Laboratory of Alternate Electric Power System with Renewable  
Energy Sources  
North China Electric Power University and  
Director of SI FANG Research Center  
Beijing  
China

11:15 am - 11:30 am:  Networking Break

11:30 am - 12:15 pm: Development of Renewable Energy Projects in Hong Kong - HK Electric Experience
Mr C.K. Lau  
Chief Electrical Engineer  
Hongkong Electric  
Hong Kong
12:15 pm - 12:30 pm: Questions and Answers

12:30 pm - 2:00 pm: Interval

Afternoon Sessions

2.00 pm - 2:45 pm: Smart Grid Transitions toward a Future Grid, opportunities and challenges in Australia

Professor Z.Y. Dong
Ausgrid Chair Professor
Director, Centre for Intelligent Electricity Networks
The University of Newcastle
NSW

2:45 pm - 3:30 pm: A new innovative approach to implementing protection, control & communication in HV substations - An application of IEC 61850 at Western Power

Mr James Stokes
Principal Engineer - Technology Development
Integrated Design Branch / Transmission Division
Western Power Corporation
Western Australia

3:30 pm - 3:45 pm: Networking Break

3:45 pm - 4:30 pm: Statistical Methods for Predicting Events

Professor Adrian Baddeley
Fellow of Australian Academy of Science
CSIRO Division of Mathematics, Informatics and Statistics
Australia

4:30 pm - 5:15 pm: Distributed PV Installation in Horizon Power Isolated Systems

Mr Hai Bui
Senior Systems Planning Engineer
Horizon Power
Western Australia

5:15 pm - 5:30 pm: Questions and Answers

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