Reference: SYMP_BOL_2011

Type:
Symposia

Title:
BOLOGNA: THE ELECTRIC POWER SYSTEM OF THE FUTURE - INTEGRATING SUPERGRIDS AND MICROGRIDS

Abstracts

THIS SET INCLUDES:

- THE TECHNICAL PROGRAMME
- THE SYMPOSIUM PAPERS
• Assessing the impact of distributed generation on energy losses using reference network models

• System management and technical issues in a medium-range Transportation system microgrid

• Modeling and New Tools

• Software platform for technical and economic evaluation of large RES penetrations

• Average-value models for the simulation of VSC-HVDC transmission systems

• Initial results of international survey on industrial practice on power system load modelling conducted by CIGRE WG C4.605

• A short-term load forecasting tool for energy management in smart grids

• Reliability

• Risk analysis: towards a smarter grid operation

• An analytical formulation to assess distribution system reliability in presence of conventional and renewable distributed generators

• Fault diagnosis based on wavelet technique for wind energy conversion system equipped with DFIG

• Evolution of the fault locator (fault passage indicator) on MV distribution networks: from simple standalone device, to a sophisticated strategic component of the smart grid control system

• Future roles of Milli-, micro-, and nano-grids

• ICT and Smart Metering

• An analysis of communications and networking technologies for the smart grid

• Smart metering technology trials using PLC and RF mesh communications in the Republic of Ireland

• Smart metering - opportunity or threat to the power industry?

• Addressing advanced metering infrastructure implementation in Iran: status of pilot projects

• Smart meter standardisation as a market enabler and flexible information demands

• Data volume estimation for CIM based information exchange

• New applications of the common information model

• Photovoltaics

• A Bayesian-based approach for photovoltaic power forecast in smart grids

• Performance evaluation of photovoltaic-ultracapacitor based power generator under varying solar irradiance

• Improving capacity utilization - low voltage grids with high photovoltaic penetration

• PV production forecast for an effective VPP exploitation

• Facilitating higher penetration of photovoltaics on distribution networks with advanced inverter controls

• Development of test facilities for next generation grid

• Vulnerability and Power Quality

• Distributed filtering of high harmonics in smart grid

• The threat of intentional electromagnetic interference (IEMI) to the control of supergrids

• On the evaluation of voltage dip performance of micro-grids

• Non-linear power flow analysis and compensation for microgrids using p-q theory
A methodology for assessing the impact of distributed wind power on voltage flicker

Preliminary analysis of MV overhead lines models for high frequency harmonic penetration studies in the new scenario of smart grids

Experimental evaluation of cyber risks for electric power utilities—towards the operation of smarter grids

Locational marginal pricing based impact assessment of plugin hybrid electric vehicles on transmission networks

Information exchange needs for the electricity internal energy market (IEM). ENTSO-E work to allow interoperability and efficient electronic data interchange in Europe

Market Models to support integration of super grids & micro grids

European energy regulators’ views on regulating smarter transmission networks

Smart grid program—challenges for its deployment in Brazil

Campus based smart microgrid at British Columbia Institute of Technology in Vancouver, Canada

The Swedish government inquiry on smart grids

Direct load control as a distributed energy resource

Large scaled smart-grid application project in Korea

Demonstrating DER-based voltage control in the Danish Cell Project

Cooperation of HVDC and other converters of distributed generation with AC systems in case of large disturbances

What makes a transmission grid smart?

An analysis of technical aspects of smart grid technologies integration into power system of megacity

How to design a domestic smart grid field test taking into account the demands of a transmission system operator

Vision of smart grids implementation in Slovenia

More Informations:

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