**Abstract**
This presentation provides an overview of the Ecogrid EU project, which is a large-scale demonstration project on the Danish island Bornholm. It provides Europe a fast track evolution towards smart grid dissemination and deployment in the distribution network. Objective of EcoGrid EU is to illustrate that modern information and communication technology (ICT) and innovative market solutions can enable the operation of a distribution power system with more than 50% renewable energy sources (RES). This will be a major contribution to the European 20-20-20 goals. Furthermore, the proposed EcoGrid EU market will offer the transmission system operator (TSO) additional balancing resources and ancillary services by facilitating the participation of small-scale distributed energy resources (DERs) and small end-consumers into the existing electricity markets. In the presentation, the Nordic power system will be also introduced.

**About the Speaker**
Yi Ding is an Associate Professor in the Department of Electrical Engineering, Technical University of Denmark (DTU), Denmark. He received the B.Eng degree from Shanghai Jiaotong University, China, and the Ph.D. degree from Nanyang Technological University, Singapore, both in electrical engineering. His research interests include power systems reliability/performance analysis incorporating...
renewable energy resources, smart grid performance analysis, and engineering systems reliability modeling and optimization. He is responsible for designing the bidless real time market in the Ecogrid EU project.

Enquiry: 3442 8408

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