



Lecture by

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Title of Presentation

Power Grid based on Power Electronics and Renewable Power Plants

Abstract

Power systems are in transition as a part of Green Transition. Traditional fossil fuel based synchronous generators are being replaced by power electronic interfaced renewable power plants, which would result in a new type of power grid dominated by power electronics and renewable energy sources.

The speech will brief the development of renewable energy based power systems, discuss the new features and challenges, describe the possible solutions. A short introduction about Aalborg University and some recent research work are also described.



About the presenter

Zhe Chen

Dr Chen received his Ph.D. degree in Power and Control, from University of Durham, England, he has been a full Professor with the Department of Energy Technology, Aalborg University, Denmark since 2002.

Professor Chen is the Danish Principle Investigator for *Wind Energy* of *Sino-Danish Centre for Education and Research (SDC)*, the leader of Wind Power System Research program at the Department of Energy Technology, Aalborg University. His main current research interests are wind energy, power electronics, power system and modern energy systems. In these areas, he has led many international and national research projects and has supervised many PhD, Postdoctoral researchers and visiting scholars, has more than 800 technical publications. He is a panel member and a review expert for many international funding organizations.

Dr Chen is a member of editor boards of many international journals, including Associate Editor of the IEEE Transactions on Power Electronics, Subject Editor (wind turbine control) of IET Renewable Power Generation, etc. He is a Fellow of IET, a Chartered Engineer in the U.K., a Fellow of IEEE and a member of the Danish Academy of Technical Sciences.