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Title of Presentation

Renewable Energy Sources in Modern Power Systems

Abstract

Power systems are in transition as a part of Green Transition. Traditional fossil fuel based power generation technology is being replaced by power electronic interfaced renewable energy sources, in particularlly, variable renewable energy sources, such as wind turbines and PV panels, which would significantly change the characteristics of power systems and present many challenges.

The speech will brief the status of renewable energy based power systems, discuss the new features and challenges in present power systems, discuss the possible solutions. Aalborg University and some recent research work are also briefly introduced.



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 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 more than 100 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.