

Wind Farm Modeling for Steady State and Dynamic Analysis

G.Kabashi, K.Kadriu, A.Gashi, S.Kabashi, G.Pula, V.Komori

Abstract—This paper focuses on PSS/E modeling of wind farms of Doubly-fed Induction Generator (DFIG) type and their impact on issues of power systems operation. Since Wind Turbine Generators (WTG) don't have the same characteristics as synchronous generators, the appropriate modeling of wind farms is essential for transmission system operators to analyze the best options of transmission grid reinforcements as well as to evaluate the wind power impact on reliability and security of supply. With the high expected penetration of wind power into the power system a simultaneous loss of Wind Farm generation will put at risk power system security and reliability. Therefore, the main wind grid code requirements concern the fault ride through capability and frequency operation range of wind turbines. In case of grid faults wind turbines have to supply a definite reactive power depending on the instantaneous voltage and to return quickly to normal operation.

Keywords—Power System Transients, PSS/E dynamic simulation Double-fed Induction Generator.

I. INTRODUCTION

THE proper modeling of wind farm projects in systems studies is becoming increasingly important to system operators. In the past decade, wind power has evolved into a significant renewable energy source which continues to grow rapidly. Wind farms are growing in size and complexity and they consist of many units with significant power output. The increased size of wind power projects and the development of large wind parks bring about a number of opportunities and challenges [1]. The location of wind farms installation is based on good wind conditions and favorable economic and environmental condition of selected site. However these good wind conditions often coincide with relatively remote parts of power systems. In a power system there are always limitations as to how much power can be transmitted from one point to another point. The limitations depend on thermal limits, angle stability limits or voltage stability limits. Because of the limited extension of the Kosovo power system this process is particularly challenging. In view of the increasing interest in connecting wind farms to the Kosovo transmission grid, KOSTT (Kosovo Transmission System and Market Operator)

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has undertaken an initiative to modify or extend own Grid Code to accommodate the particular capabilities and requirements of wind turbine generators (WTG-s). The main issue here is the obligation the Wind Code places on the Generator/developer to provide a computer model of the WTG suitable for power systems studies [2]. Some TSO-s prefer to develop such a model themselves directly from a detailed mathematical description of the WTG. This however places the burden of responsibility onto the TSO to get the model right – which is impractical given the present state of modeling knowledge as well as because of having non-power-intensive requirements. Therefore KOSTT follows the practice of many other TSO-s and places the obligation on the developer. In practice, we cannot expect wind farm developers to have the knowledge or skills to produce such a model – it will probably be provided by the wind turbine manufacturer (which in turn opens up confidentiality issues). In cases where the wind farm developer can not provide WTG model, KOSTT will use generic user model provided by the PSS/E (PTI).

The objective of this paper is to present the most significant characteristic and specific aspects of detailed wind farm modelling containing variable speed wind turbine units. A specific case study is analysed in order to identify the main requirements for wind farm connection to the Kosovo transmission grid. This paper will not address the detailed mathematics of PSS/E WTG user models which have been covered in many publications.

II. WIND FARM MODELING APPROACH

A. Overview

The modelling approach of wind farms is based on Wind Grid Code Requirements. The aim of Wind Grid Code is to provide a self-contained description of the technical and operational requirements that are to be met by the developers and operators of Wind-Powered Generating Stations (WPGS) that wish to connect to the Kosovo electricity grid and participate in the Kosovo electricity market. The Wind Code applies to all WPGS, that are or have applied to be connected to the transmission grid, with installed capacity of more than 10 MW. Developers of WPGSs intending to apply for connection to the transmission grid should be aware that they are required to provide Project Planning data at this level of detail at the time of filing the application in order for the TSO to carry out the relevant connection design and impact studies.

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Peipei Pang



Wind Farm Modeling For Steady State And Dynamic Analysis:

Modeling and Stability Analysis of Inverter-Based Resources Lingling Fan, Zhixin Miao, 2023-11-29 Renewable energy sources interface with the ac grids via inverters are termed inverter based resources IBRs They are replacing traditional fossil fuel based synchronous generators at a dazzling speed In turn unprecedented dynamic events have occurred threatening power grid reliability Modeling and Stability Analysis of Inverter Based Resources provides a fundamental understanding of IBR dynamics Developing reliability solutions requires a thorough understanding of challenges and in this case IBR associated dynamics Modeling and stability analysis play an indispensable role in revealing a mechanism of dynamics This book covers the essential techniques of dynamic model building for IBRs including type 3 wind farms type 4 wind farms and solar photovoltaics Besides modeling this book offers readers the techniques of stability analysis The text includes three parts Part 1 concentrates on tools including electromagnetic transient simulation analysis and measurement based modeling Part 2 focuses on IBR modeling and analysis details Part 3 highlights generalized dynamic circuit representation a unified modeling framework for dynamic and harmonic analysis This topic of IBR dynamic modeling and stability analysis is interesting challenging and intriguing The authors have led the effort of publishing the 2020 IEEE Power and Energy Society's TR 80 taskforce report Wind Energy Systems Subsynchronous Oscillations Modeling and Events and the two taskforce papers on investigation of real world IBR dynamic events In this book the authors share with readers many insights into modeling and analysis for real world IBR dynamic events investigation *Energy Engineering and Environmental Engineering* Tony Sun, 2013-04-10 Selected peer reviewed papers from the 2013 International Conference on Energy Engineering and Environmental Engineering ICEEE 2013 January 18 19 2013 Hangzhou China *Modeling and Control of Power Electronics for Renewables* Chen Zhang, Dao Zhou, Yongheng Yang, Wenping Zhang, 2025-09-26 Modern power electronics converters are used in a wide range of applications including switched mode power supplies electrical machine motion control active power filters and distributed power generation Power electronics an important interface between renewables and the grid has advanced rapidly in recent years As the percentage of renewables integration increases new challenges emerge such as weak grid issues high frequency circulation suppression active grid support function arc detection and so on These new issues create new challenges for modeling and controlling power electronics As a result in depth discussions on these issues are required in order to provide technical support for the global energy transition The purpose of this research topic is to investigate the modeling and control of power electronics converters as well as to provide the reader with how to analyze and model converter behavior in order to improve their design and operation Furthermore a set of algorithms designed specifically for use with power converters to address emerging challenges such as weak grid issues high frequency circulation suppression active grid support function arc detection and so on We hope that this Research Topic will provide an overview of the state of the art in modeling and controlling power electronics for renewable

energy and power systems **Energy Research Abstracts** ,1986 **The Effects of Noise on Aquatic Life II** Arthur N. Popper,Anthony Hawkins,2015-11-26 The meeting of Aquatic Noise 2013 will introduce participants to the most recent research data regulatory issues and thinking about effects of man made noise and will foster critical cross disciplinary discussion between the participants Emphasis will be on the cross fertilization of ideas and findings across species and noise sources As with its predecessor The Effects of Noise on Aquatic Life 3rd International Conference will encourage discussion of the impact of underwater sound its regulation and mitigation of its effects With over 100 contributions from leading researchers a wide range of sources of underwater sound will be considered **Conference Record, Industry Applications Society, IEEE-IAS Annual Meeting (1981)** IEEE Industry Applications Society,1999 Recent Advances in Renewable Energy Automation and Energy Forecasting Sarat Kumar Sahoo,Franco Fernando Yanine,Vikram Kulkarni,Akhtar Kalam,2023-12-08 The advancement of sustainable energy is becoming an important concern for many countries The traditional electrical grid supports only one way interaction of power being delivered to the consumers The emergence of improved sensors actuators and automation technologies has consequently improved the control monitoring and communication techniques within the energy sector including the Smart Grid system With the support of the aforementioned modern technologies the information flows in two ways between the consumer and supplier This data communication helps the supplier in overcoming challenges like integration of renewable technologies management of energy demand load automation and control Renewable energy RE is intermittent in nature and therefore difficult to predict The accurate RE forecasting is very essential to improve the power system operations The forecasting models are based on complex function combinations that include seasonality fluctuation and dynamic nonlinearity The advanced intelligent computing algorithms for forecasting should consider the proper parameter determinations for achieving optimization For this we need new generation research areas like Machine learning ML and Artificial Intelligence AI to enable the efficient integration of distributed and renewable generation at large scale and at all voltage levels The modern research in the above areas will improve the efficiency reliability and sustainability in the Smart grid **Proceedings of the American Power Conference** ,1997 The Engineering Index Annual ,1994 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly **Comprehensive Dissertation Index** ,1984 Government Reports Announcements & Index ,1987 **Mechanical Engineering** ,1984-06 *Conference Papers from the Summer Meeting* IEEE Power

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Simulation and Analysis of Modern Power Systems Ranjana Sodhi,2021-02-19 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Master the modeling analysis and simulation of today s power systems This comprehensive textbook discusses all the major modelling and simulation tools and techniques that a power engineer needs and explains how those tools can be applied to modern power systems The applications include loadflow studies contingency analysis transient and voltage stability studies state estimation and phasor estimation studies co simulation studies Written by a recognized expert in the field Simulation and Analysis of Modern Power Systems contains real world examples worked out in MATLAB PSCA and Power World EMTP and RTDS You will get a thorough overview of power system fundamentals and learn step by step how to efficiently emulate and analyze the myriad components of modern power systems The book introduces the most state of the art power simulation tool available today the Real Time Digital Simulator RTDS and its Hardware In Loop HIL capabilities Explains how each technique is used in many essential applications Introduces the Real Time Digital Simulator RTDS and its Hardware In Loop HIL capabilities Written by a power systems expert and experienced educator

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