

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.

Wind Farm Modeling For Steady State And Dynamic Analysis

Richard Bailey



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a break pressure tank which includes a lank structure a pipe arrangement defining a flow line leading through the tank structure from an inlet end connectable to a pipelina from reservoir and entering the tank structure near the top end thereof o an cullet end connectable to a pipeline leading to water supply points and leaving the tank

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construction the break pressure tank consists of the following 1000l 3cr12 stainless steel tank basket strainer with flush valve butterfly valve for isolation diaphragm operated level control valve inlet outlet and overflow pipe work operation the diaphragm valve in the bpt opens and closes as system demand fluctuates

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break pressure tank is a structure that is located between a water reservoir and supply point with the aim of reducing the pressure in the system to zero atmospheric pressure conventional break pressure tank is constructed of concrete in rectangular shape with the depth of the tank about 1.2m

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break pressure tanks which are usually made of concrete or ferrocement if break pressure tanks are used the hydraulic gradient starts again at the tank water level if suitably sized these tanks can be used within the system as storage tanks to meet peak demand reservoir storage tanks although a village's water needs are based upon a

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research and insight break tank break tanks are implemented in boosting systems to supply the system if the mains supply becomes insufficient tanks are also implemented in series connected boosting systems a break tank is also used to ensure that a surge from the starting and stopping pumps doesn't affect the mains distribution

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if you need to reduce the pressure in a water network you can either use a break pressure tank or a pressure reducing valve the following video demonstrates how to model and analyse a water network with a break pressure tank this video can also be found in our training on demand site bulk water channel

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aug 17 2020 after planning and selecting the site now turn to construct the bpt mostly the bpt is constructed downstream it is generally constructed of stone masonry rcc ferro cement etc bpt is a rectangular tank structure having a base of 1000mm 1000mm and a height of 1200mm

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nov 14 2020 the water is lifted to break pressure tank by pumping main and thereafter it is conveyed to water treatment plant using gravity main the variable cost parameters of the transmission system such as cost of pipes pumps and energy are studied

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this invention relates to a break pressure tank a break pressure tank as herein envisaged is used in a downstream location with respect to a water reservoir particularly for reducing and

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