

TRANSIENT STABILITY ANALYSIS OF DISTRIBUTED GENERATION

S.Sivanandan¹, S.Jaisiva², R.Vinoth³, A.Mahendran⁴

¹Assistant Professor, Dept. of Electrical & Electronics Engineering, IFET College of Engineering, Villupuram, Tamilnadu, India

²Assistant Professor, Dept. of Electrical & Electronics Engineering, IFET College of Engineering, Villupuram, Tamilnadu, India

³Assistant Professor, Dept. of Electrical & Electronics Engineering, IFET College of Engineering, Villupuram, Tamilnadu, India

⁴Assistant Professor, Dept. of Electrical & Electronics Engineering, IFET College of Engineering, Villupuram, Tamilnadu, India

Abstract

The commonly used distributed generation technologies include wind generators, photo voltaic and biomass generators with their sizes varying between KW to a few MW. Due to increased demand in power supply the role of these distributed generators become inevitable in power systems. This work deals with analyzing the transient stability indicators i.e., the variation of distributed generator terminal voltage, local side terminal voltage and rotor speed during different fault conditions when it is connected to the electric grid along with storage device (Lithium-ion battery). Three bus test system is considered for the analysis and MATLAB / Simulink power systems tool is used as a software tool to show the performance.

Keywords:- Transient Stability, Distributed Generator, Lithium Ion Battery, Terminal Voltage and Rotor Speed Deviation.

1. INTRODUCTION

Distributed generation is getting a lot of focus in recent years due to various energy and environmental concerns. Unlike the conventional generators, the distributed generators use both non-renewable and renewable sources of energy to generate electricity. Major technical and economic issues arise when these DG's are interconnected with the electric grid. The technical issues include stability, power quality, protection issues and voltage fluctuations. It has to be noted that certain renewable generators such as wind and solar do not produce power at a constant rate since they are dependent on the natural forces. This makes the use of storage devices very essential.

There has been increased point up in the decades on the concept of smoothing intermittent output of distributed generation (DG) using energy storage [1]. DGs can be defined as the concept of connecting generating units of small sizes, between several kW to a few MW. The primary source of energy for these generators can be the traditional non - renewable sources such as gas or the renewable sources such as wind, solar, hyden, and biomass [3]. These generators are connected either to the medium voltage or low voltage sections of the electric grid. Most often they are connected near the load centers or the low voltage networks.

In case of certain renewable technologies, such as wind turbines and solar panels, the output power depends upon the availability of renewable resource and therefore may not always be constant. In such cases, in order to augment the DGs during low power periods, energy storage devices are used [3]. Other than wind and solar, storage can help in

smoothing the power in conjunction with biomass especially for rural combined heating and power applications. These devices store energy during periods of high power or low demand and use the stored energy to supply the excess loads during periods of low power. Different types of energy storage devices that are used in a distributed environment include batteries, ultra capacitors, flywheels, fuel cells and superconducting magnetic energy storage [4]-[7]. In addition to supporting the DGs during peak demand, the storage devices may also help in improving the overall stability of the entire system. These energy storage devices are connected to the electric grid by means of suitable power conversion devices [8]-[10].

Certain DG techniques such as wind and solar, do not output constant power at all times. In such cases, storage of power for later use becomes essential. The energy storage devices store power from the DG's during times of normal output and low loads. This stored energy can be used at time when there is no DG output or during periods of high demands. The storage device that needs to be used depends upon the application, amount of storage needed and the duration of storage. Most of the storage devices are DC, so we need power electronic interfaces to connect them to the AC system.

DG's can operate in two modes namely stand-alone and grid connected. The grid connected mode has drawn a lot of attention and analysis recently, due to its impacts on the grid. Though the DG has a lot of advantages, it also has some negative impacts especially when connected to the grid.

Transient Stability Analysis Of Distributed Generation

Ian Pickup



Transient Stability Analysis Of Distributed Generation:

Handbook of Energy and Environment in the 21st Century Muhammad Asif, Guller Sahin, Muhammad Khalid, 2024-06-27

The Handbook of Energy and Environment in the 21st Century discusses the key dimensions of the present energy scenario as well as the emerging trends. Global responses to environmental challenges are examined taking into account technical, economic, social, and policy perspectives. Responding to the latest developments, the book also discusses the impacts of natural disasters and pandemics on energy in the context of energy and environmental implications. Further, it presents various related topics such as the dynamics of sustainable energy transition, renewable energy implementation, decarbonization of fossil fuels, electric mobility, distributed generation systems, and energy security. The book will benefit a wide range of stakeholders from the fields of energy, environment, socioeconomics, geopolitics, and sustainable development. It serves as a valuable reference for academics, researchers, and analysts in these fields. Provides a comprehensive and balanced account of the interwoven subjects of energy and environment in terms of technology and policy dynamics. Incorporates up-to-date data, case studies, and comparative assessments.

Advances in Electrical and Computer Technologies Thangapraakash Sengodan, Sanjay Misra, Murugappan M, 2025-07-04. This book comprises a selection of papers presented at the Sixth International Conference on Advances in Electrical and Computer Technologies (ICAECT 2024). It compiles groundbreaking research and advancements in the field of electrical engineering, electronics engineering, computer engineering, and communication technologies. The book touches upon a wide array of topics including smart grids, soft computing techniques in power systems, smart energy management systems, and power electronics under the Electrical Engineering track, and biomedical engineering, antennas, and waveguides, image and signal processing, and broad band and mobile communication under the Electronics Engineering track. With special emphasis on Computer Engineering, this book highlights emerging trends in computer vision, pattern recognition, cloud computing, pervasive computing, intelligent systems, artificial intelligence, neural networks, and fuzzy logic, machine learning, deep learning, data science, video processing, and wireless communication. This is a valuable resource for students, researchers, and engineers within the field of innovative research and practical applications of electrical and computer technologies.

Advanced Analytics for Reliability and Resilience of Energy System Fausto Pedro Garcia Marquez, René Vinicio Sánchez Loja, Mayorkinos Papaefthymiou, 2026-02-10. Advanced Analytics for Reliability and Resilience of Energy Systems prepares students, researchers, and industry engineers to design and maintain reliable, sustainable energy systems using state-of-the-art AI techniques. This book provides a clear foundation in the fundamentals of power systems, statistics, and reliability, including resilience principles and strategies, practical applications, and real-world solutions. The AI tools presented range across forecasting, the Internet of Things, machine learning, digital twin technology, and big data analysis, with a variety of applications to avoid power outages, minimize disruption, and accurately assess system resilience. Including case studies and details, methodology for practical techniques. Advanced Analytics for

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Renewable Energy Devices and Systems with Simulations in MATLAB® and ANSYS® Frede Blaabjerg, Dan M. Ionel, 2017-05-18 Due to the increasing world population energy consumption is steadily climbing and there is a demand to provide solutions for sustainable and renewable energy production such as wind turbines and photovoltaics Power electronics are being used to interface renewable sources in order to maximize the energy yield as well as smoothly integrate them within the grid In many cases power electronics are able to ensure a large amount of energy saving in pumps compressors and ventilation systems This book explains the operations behind different renewable generation technologies in order to better prepare the reader for practical applications Multiple chapters are included on the state of the art and possible technology developments within the next 15 years The book provides a comprehensive overview of the current renewable energy technology in terms of system configuration power circuit usage and control It contains two design examples for small wind turbine system and PV power system respectively which are useful for real life installation as well as many computer simulation models

Innovative Testing and Measurement Solutions for Smart Grid Qi Huang, Shi Jing, Jianbo Yi, Wei Zhen, 2016-04-25 Focuses on sensor applications and smart meters in the newly developing interconnected smart grid Focuses on sensor applications and smart meters in the newly developing interconnected smart grid Presents the most updated technological developments in the measurement and testing of power systems within the smart grid environment Reflects the modernization of electric utility power systems with the extensive use of computer sensor and data communications technologies providing benefits to energy consumers and utility companies alike The leading author heads a group of researchers focusing on the construction of smart grid and smart substation for Sichuan Power Grid one of the largest in China's power system

Load Modeling Transmission Research Bernard Lesieutre, Lawrence Berkeley National Laboratory, 2008

IEEE/PES Transmission and Distribution Conference and Exhibition 2002: Asia Pacific, 2002

Proceedings of the Tenth Power Systems Computation Conference, Graz, Austria, 19-24 August 1990 Denis Sjelvgren, 1990

Investigation of Transient Stability in a Distribution System with Renewable Energy Integration Kifah Daher, 2013

Proceedings, Bulk Power System Voltage Phenomena Lester H. Fink, 1989

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Proceedings of MELECON ,2002 **Consulting-specifying Engineer** ,2004 Paper Abstracts ,2005

Proceedings of ... International Conference on Power Electronics and Drive Systems ,2005 *Electrical & Electronics Abstracts* ,1997

This book delves into Transient Stability Analysis Of Distributed Generation. Transient Stability Analysis Of Distributed Generation is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Transient Stability Analysis Of Distributed Generation, encompassing both the fundamentals and more intricate discussions.

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