

Modelling and Control of the Modular Multilevel Matrix Converter and its application to Wind Energy Conversion Systems

Matias Diaz
U. of Santiago of Chile
Santiago, Chile

Roberto Cárdenas
U. of Chile
Santiago, Chile.

Mauricio Espinoza
U. of Costa Rica
San José, Costa Rica

Andres Mora
UTFSM
Valparaíso, Chile

Pat Wheeler
The U. of Nottingham
Nottingham, UK

Abstract—In the last past years, some countries are enforcing stringent grid codes to regulate the connection of Wind Energy Conversion Systems (WECSs) to the electrical network, mainly because of the high penetration of electric power from this renewable source. Additionally, the trend of wind turbines has shown an ongoing power rating growth, reaching sizes up to 10 MW. Multilevel converters have appeared as a solution for large WECSs, due to its high reliability, controllability and the capability to reach high power ratings. This paper presents a control strategy for the application of the Modular Multilevel Matrix Converter in Multimegawatts Wind Turbines. Extensive computer simulations and a downscaled laboratory prototype, with twenty-seven power cells, are presented to validate the effectiveness of the proposed control system.

Keywords— Wind Turbines, Wind Energy Conversion Systems, Fault Ride-Through Capability, Modular Multilevel Matrix Converter.

I. INTRODUCTION

Wind Energy has become in the industry with greatest and fastest growth among all the renewable energy sources. The wind energy production capacity for the whole world increased exponentially from 17.4 GW in 2000 to 432.4 GW in 2015, positioning wind power as a significant and crucial energy source in areas as China, USA and Europe. Powered 30.5 GW of new installations in China, the global wind power installed in 2015 was 63 GW, representing annual market growth of 22% [1].

A constant increment of wind power capacity is expected in the near future. Truthfully, the European Wind Energy Association (EWEA) plan for the next years is to become wind industry in the most competitive energy source, by 2020 onshore and offshore by 2040. The EWEA has stated that “wind power would be capable of contributing up to 20% of EU electricity by 2020, 30% by 2030 and 50% by 2050”.

An important part of the required future installed wind power will be offshore based, because of the higher wind-energy potential and the lower environmental impacts. Going offshore implies several technology challenges, mainly regarding reliability, efficiency and upscaling. Considering that largely expensive platforms must support the total weight of the WECS, the size and weight of components are critical, and possible weight reductions become crucial. What is more, it has been demonstrated that high power wind turbines could reduce the cost structure of offshore WECS, reason why upscaling has

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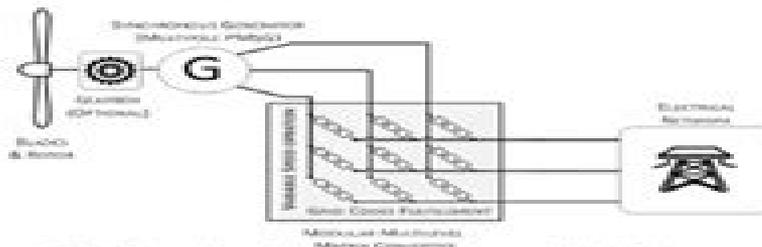


Fig. 1. Proposed topology to drive a High-power Wind Turbines

become the focus of modern wind energy application and research [2], and why wind turbines manufacturers have been upscaling turbine dimensions.

However, most of the present WECSs are based on low-voltage two-level voltage source power converters (usually based on 1700-V IGBT devices for a 690-V voltage level), which is not the best technology for high power applications due to the high currents required. Consequently, medium or high voltage power electronic converters (e.g. multilevel converters) are well suited for high-power wind turbines. Therefore, Modular Multilevel Converters appears as a suitable technology to reach high power ratings.

The Modular Multilevel Matrix Converter (MPC) is a modular AC/AC converter able to reach medium-voltage levels by the series connection of full-bridge modules. This converter has some advantages compared to traditional two-level converters for high-power applications, fundamentally focused on the full modularity and easy extendibility to reach high voltage and high power levels, redundancy, control flexibility and power quality improvements [3], [4].

In this context, this paper introduces the application of the MPC to drive high-power WECSs, as is illustrated in Fig. 1. Comprehensive theoretical discussion on the control and modelling of the MPC is considered. Finally, the effectiveness of the proposed topology is confirmed by experiments using simulation models and a downscaled 5kW laboratory prototype.

GRID INTEGRATION REQUIREMENTS FOR WECS

In countries with a high penetration of renewable energies, dedicated grid code regulations have been enforced to ensure the

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web subject employee pay account opening request dear sir or madam this is to certify that employee name s o parents name job designation is an employee of company institute name since date dd mm yy describe in your own words we request you to open his bank account at employee pay account explain on requirements regards

request letter for opening salary account to hr hr cabin - Jun 01 2023

web here i would like to request you to kindly open a salary account for me and please find all the required documents like my aadhar and pan card copies attached with this letter i shall be grateful to you for in this help

employee salary account opening letter to bank from company - Aug 03 2023

web search letters formats here employee salary account opening letter to bank from company many companies offer salary accounts of a bank to their employees as an additional perquisite

employee salary bank account opening letters word format - Dec 27 2022

web sub request to open a bank account this mailing serves as our request to opens a salary user for our newly rent employee mr ms gayatri gupta trait incharge her employment item were given below friendly find the bundled view opening art filled through her and kyc documents required up open a bank account name gayatri gupta

employee salary bank account opening letters word format - May 20 2022

web this letter serves as our request to open a pay account for our newly hired employee mr ms gayatri gupta quality incharge her employment details were defined below kindly find the confined account opening form filled by her and kyc documents required to

employee salary bank account opening letters word format - Aug 23 2022

web this letter helps as our request to open ampere salary account for our newly hired labourer mr ms gayatri gupta quality incharge her employment details was given below kindly find the enclosed account opening form stuffed by her and kyc documents required at open a slope book

request letter for opening salary account to hr respond to a letter - Nov 25 2022

web if you need to open up a u s store create plea request a letter from of issso since that i needs to touch the hr department included your organization if your hr is not opening a salary account for you then her can send the beneath email formats to

get your account opened

salary certificate request letter sample how to write a request letter - Mar 30 2023

web date your name title department recipient name title department dear mr i am writing this letter to request a salary certificate i am applying for a housing loan and the bank has asked me to submit a salary certificate from my current employer as income proof along with other necessary documentation

letter for opening salary bank account of new employees - Jan 28 2023

web sometimes banks ask for this letter from an employer or company to open a basic bank account or salary based bank account you can follow this sample as a new employee reference letter for the bank account opening from the company date bank authority name job designation department name

employee salary bank account opening letters word format - Sep 23 2022

web this letter aids the unsere request to open a salary account for the newly hired employee mr ms gayatri gupta trait incharge her employment details were given below pleasant find the closed account hole form filled to herauf and kyc documents required to open a bank account name gayatri gupta term q incharge doj 01 nov 2022 salary

employee salary bank account opening letters word format - Apr 18 2022

web you are kindly requested to open a salary account with our newly hired employee employee name kindly seek that done filled bank your opening form and copies of the kyc documents required to clear a bank account