

Preface

This Ph.D. dissertation was submitted to the Faculty of Engineering, Science and Medicine at Aalborg University in partial fulfillment of the requirements for the Ph.D. degree in Electrical Engineering. The research was conducted in the Department of Energy Technology at Aalborg University as well as in DONG Energy Wind Power (DEWP). The project was industry-oriented, which created a unique opportunity to carry out research gathering benefits from both the industry and the academia.

The project has been followed by Prof. Claus Leth Bak who is with Department of Energy Technology, Aalborg University and by Dr. Jesper Hjerrild and Dr. Łukasz Hubert Kocewiak who are with DEWP.

The project has been financed by DEWP with support from Danish Ministry of Science, Innovation and Higher Education.

The author has had the pleasure of being a guest researcher at The National Renewable Energy Laboratory (NREL) in Colorado, US. NREL commissioned an advanced multi-megawatt sized power electronic grid simulator test system during the author's stay abroad. Obtained test results are used to develop and evaluate time domain models of the grid simulator and a commercial-type four wind generator turbine.

One master's project has been supervised within the confines of this project.

The thesis comprises three main parts. A corresponding reference list is presented at the end of each chapter. Literature references are shown as $[C.P]$, where C is the chapter number and P is the number in the literature position. Tables, figures and equations are shown as C-N, where C is the chapter number and N is a unique number for the particular figure, table or equation, respectively.

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