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Home Institution: Risø DTU, Technical University of Denmark

Supervisor at DTU: Poul Sorensen

Description of external stay at NTNU (Feb-May 2011)

The objective of this stay was the implementation of electrical, and control models in Matlab/Simulink for use in the integrated simulation environment HAWC2-Matlab/Simulink. The models implemented were: control of back-to-back power converter, protection systems of DFIG, and double circuit transmission line supplied by infinite bus. The impact of a voltage fault, and wind disturbances on the structural loads, and on the electrical components of a DFIG wind turbine were studied.

Supervisor at NTNU: Olimpo Anaya-Lara

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