Innovative Tools for Offshore Wind and DC Grids

Deliverable 3.3 – Work Package 3

Mathematical framework for converter interaction modelling

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Introduction

Work Package 3 focuses on the topic of Hybrid AC/DC grids covering topics on interactions between AC & DC grids. The work developed by the various researchers in this group aims at achieving the targets set by each deliverable.

This document summarizes the work delivered by Work Package 3 to achieve Deliverable 3.3.

Deliverable 3.3

The topic of D3.3 is *Mathematical framework for converter interaction modelling,* which has been set with a delivery format as "other". Converter interactions in various time frames have been analyzed and modelled from three points of view, as explained in the following short videos.

Vaishally Bhardwaj – "Framework for reliable AC/DC grid operation":
https://www.youtube.com/watch?v=XZJ_U60PQF4

Saman Dadjo Tavakoli - "Interactions and stability analysis of MMC based VSC HVDC link":
https://www.youtube.com/watch?v=nBuLq8BnqG0

Nathalia Campos – "Simulation of power systems for transient stability studies":
https://www.youtube.com/watch?v=0nEY189CMfk&t=345s

All the videos are publicly available on the InnoDC YouTube channel:
https://www.youtube.com/channel/UCLrfBzz3SExZZgxPEhyX89Q

Work package members

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