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Milestone report: CM3

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Work Package: WP 4 - 'Demonstration and commercial exploitation'

Milestone name: CM3 - 'GASP concept demonstrated on commercial turbine response model

including load margins '

Milestone status: Completed

Milestone description

Commercial Milestone 3 (CM3) covers demonstration of the application of the GASP concept to a commercial turbine load model. Based on talks with the commercial partner Nordex, it was decided to demonstrate the concept for the high accuracy commercial dataset calibrated for Sweden (RASP-SWE). So, in principle CM3 covers a 'double' commercial demonstration.

Deliverables and outcomes

The specific Nordex data layers have been generated for the 4.5MW Nordex turbine model N149 for the two tower heights h=105m and h=155m. These data layers are calculated based on a load response model of the turbines provide to EMD by Nordex and can be chosen as a dataset in windprospecting.com for the user-logins which are granted access.



The resulting datasets for the turbines may be visualized in a spatial view for the omnidirectional parameters, such as the resulting component/sensor load indices with and without wake-effects.



Milestone Report EUDP Project: **GASP**





Finally, the results can also be viewed as point-results with load indices for all component/sensors either with or without wake-effects.



Feed-back meeting with Nordex is scheduled end of June after a trial period of several weeks.