

# ***Interactive comment on “Blind test comparison of the performance and wake flow between two in-line wind turbines exposed to different atmospheric inflow conditions” by Jan Bartl and Lars Sætran***

## **Anonymous Referee #2**

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The paper deals with the analysis of a blind test with the goal to simulate the power and thrust coefficients as well as the velocity profiles at different locations in a two wind turbine model set-up in tandem configuration all for various inflow conditions.

The paper is well written and easy to follow considering the many details mentioned in the comparison of the single experiments and simulations, respectively. Nevertheless, there are mainly two comments the authors should consider.

1. The inflow conditions do not reflect any special characteristics of atmospheric flows like gusts or intermittent distributions of velocity increments. Therefore the authors

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should use the general term of turbulent inflow conditions instead atmospheric inflow conditions throughout the paper. In that case the use of turbulence intensity of sufficient like they did.

2. In figure 7 a), b), e) and f) gray full circles without error bars are used for the results of the first wind turbine. Is there a reason for that ?

In general it would be interesting to know if more detailed analyses with respect to e. g. spectra or even higher moments are planned with the data. Maybe some of the differences in the presented mean values are related to differences in the generated turbulence itself. This, of course, can and should not be discussed in this paper.

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[Interactive comment on Wind Energ. Sci. Discuss., doi:10.5194/wes-2016-31, 2016.](#)

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