

Interactive comment on “Power curve and wake analyses of the Vestas multi-rotor demonstrator” by Maarten Paul van der Laan et al.

Anonymous Referee #2

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The paper describes a comparison between measurements and simulations of wakes of the multi-rotor demonstrator at Risø. The paper is thorough, but unfortunately measurements and simulation results do not match up. Good to publish though, for other's to improve upon further.

Some questions:

- Does the influence of trees and highway (mentioned on page 6., line 10) perhaps explain some of the differences between measurement and simulation (far wake)?
- On page 7, line 9-11, it is stated that the atmospheric conditions were used as input to the simulations. Yet on page 18 line 11-13, it is stated that the near-neutral conditions could have reduced wake deficit of measurements relative to simulations. How can the

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conditions still be "blamed" if they were taken into account in the simulations, also the more high-fidelity ones? Am I missing something?

Possible correction: - Page 18, line 7-8: Isn't wake deficit higher if wind speed is lower in the wake?

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