

Interactive comment on “Nacelle power curve measurement with spinner anemometer and uncertainty evaluation” by G. Demurtas et al.

Anonymous Referee #1

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This paper investigates the methods to evaluate the power performance of two wind turbines using spinner anemometers, where power curves of two adjacent wind turbines are measured by means of a common traceable calibrated met-mast and spinner on each turbine. It verifies the feasibility of using the spinner anemometer calibration and nacelle transfer function determined on a reference turbine. It is concluded that power performance measurement with use of spinner anemometer can be made within 0.38% difference in AEP for annual mean wind speed of 8 m/s.

This paper is organized in a good structure, and some following concerns are needed to be modified and clarified:

1. Last sentence in abstract: 0.10% and 0,38%. Please keep them uniformed.
2. Figure 5: why power (pu) not reach 1 when the wind speed (pu) reaches 1 ? Maybe

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add unit for wind speed, otherwise delete the brackets.

3. Figure 10: is the unit of y-axis kW ? Please make sure it is a pu value or not.

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