

Interactive comment on “Axial induction controller field test at Sedin wind farm” by Ervin A. Bossanyi and Renzo Ruisi

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Dear authors,

Thank you for this very interesting contribution, it was a pleasure reading it! I have two comments that might be worth considering to strengthen the conclusions and credibility of the experimental results:

1) P20/L386: "If we only accept bins with at least two ON and two OFF points..." It would be interesting to see how the mean increase changes when increasing the minimum number of points per bin (further than three). It seems from the figures shown that the average increase might become smaller when considering the more trustworthy bins only (for example where more than five data points are available). Also, it might

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be interesting to report a weighted mean that takes the number of occurrences into account.

2) P22/L394: "So far, no account has been taken of turbulence intensity in the data analysis." The TI has a known effect on the wake recovery and meandering. Therefore, higher turbulence might also lead to increased farm power production. Indeed, the average TI during farm control being "ON" is larger than during "OFF", especially in the bin with a 71% power increase. Could it be that the reported power increase is partially caused by increased TI? Is it possible to expand Figure 14 and include the TI (with normalized power as it is done for the wind direction)?

Additional comment: Figure 7 shows the induction control setpoints (ranging between "0" and "9"). I could not find any definition for those setpoints. Does "9" stand for 90% power curtailment?

Thank you for your consideration!

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