Interactive comment on "Axial induction controller field test at Sedini wind farm" *by* Ervin A. Bossanyi and Renzo Ruisi

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Dear authors,

I found it very interesting to read your paper on the filed testing with induction control performed at Sedini wind farm within the CL-Windcon project. I was happy to see the positive results in terms of achieved power gain, even though the uncertainty in the estimates is quite high due to the low number of useful data points collected. Still, these results confirm earlier results from field testing with induction control (our own work, refer to paper of Daan van der Hoek or report by Koen Boorsma). These results still contradict with results from high-fidelity simulation and wind tunnel testing, and I believe it would be useful to make that point clear in the introduction. Please add some

relevant citations to put the paper in the right perspective.

Other minor comments:

- line 6: "20-20" -> "2020"

- page 1, line 28: Please, include reference to Bart Doekemeijer's paper about wake redirection control at Sedini wind farm.

- page 4, lines 76-79: you refer to Figures 3-4 here, while these have not yet been properly introduced in the text. I suggest you remove the references, or move these lines to a later point in the text.

- page 5, line 107: "Obukov length of -255" - please correct.

- page 5, lines 113-114: please provide a list with the compared models clarifying their main components in view of the model variations described in lines 91-100

- page 6, plots at bottom: please provide separate figure number for these plots.

- page 7, plots at bottom: please provide separate figure number for these plots.

- page 10, line 184: please provide a reference to earlier work on robust active wake control optimization including distributions

- page 17, line 316: "34" -> "33" (33 is curtailed according to Figure 12)

- page 17, Figure 12: please add units on y axis

- page 18, Figure 13: please add units on y axis

Interactive comment on Wind Energ. Sci. Discuss., https://doi.org/10.5194/wes-2020-88, 2020.