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Interactive comment on "More accurate aeroelastic wind-turbine load simulations using detailed inflow information" by Mads Mølgaard Pedersen et al.

Anonymous Referee #1

Received and published: 11 June 2018

Dear authors and editor,

The paper addresses an interesting aspect of wind turbine development and overall I think is good paper with sufficient details and rationally written.

A minor point is about the references being pretty much focused on work from the authors themselves, while i would suggest to expand (when possible) the list of work done on the same field

The major point is instead that i missed something in the paper. It is very complete, long (33 pages!) and rich of many details but I miss something. I miss the impact of such work on daily life practice in wind turbine development. Using the probe instead of

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mast improves the accuracy of the measurements... how much? normally wind turbine manufacturers estimate the impact of new ideas in terms of AEP increase or LCoE reduction. Adding such assessment would increase a lot the value of the paper since is not anymore an academic work but something that helps to bridge the gap between research and industry! It would be for instance good to know what are the costs to equip the turbine with such probe and compare at the end if the costs are worth the improvement!! In terms of blade design, how such improvement could improve the performance of the machine? reducing the severity of certain loads because the design process is more accurate? or perhaps, the life of the component would be extended? by how much? Giving such analysis would make the work significantly more relevant and attractive to read since there is impact on industrial development

best regards

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