

Interactive comment on “A Large-Eddy Simulation Approach for Wind Turbine Wakes and its Verification with Wind Tunnel Measurements” by Jiangan Wang et al.

Anonymous Referee #1

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This manuscript deals with LES simulations of a down-scaled wind turbine model, and their assessment against wind tunnel data. My main comment is that this manuscript reads more as a technical report rather than a scientific paper. Majority of the text is devoted to technical details of the LES that often are not novel and already well established in the scientific community.

In my opinion, if the focus of the paper is proposing new capabilities for an LES solver for wind turbine wake simulations, then these potential novelties should be highlighted already from the abstract. Furthermore, for each control capability, assessment against wind tunnel data for one or few conditions might not be enough to assess the accuracy

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of the model. Maybe, the work can be extended by detecting flow features that were not easily and well detected through the wind tunnel experiments and now better singled out through the LES simulations.

I suggest to significantly revise the focus and scope of the manuscript.

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