

Interactive comment on “Top Level Rotor Optimisations based on Actuator Disc Theory” by Peter Jamieson

Anonymous Referee #2

Received and published: 23 March 2020

This paper makes a nice addition to the body of work on novel designs to reduce cost of energy, through low induction rotors and secondary rotor design. The design tradeoffs for these concepts are well explained with classical momentum theory.

My main feedback is this paper needs to be better organized, which can primarily be achieved with a more robust introduction. Half of the paper is dedicated to VAWTs and secondary rotor design, but this is not mentioned in the introduction. The final paragraph in Section 2, discussing Figure 2, which provides the motivation for secondary rotors, is very out of place. This content could be moved to the introduction and the beginning of Section 4 as a transition from Section 2/3. Discussion of how the results and analysis fit into the existing body of literature is scattered throughout the paper, but a more traditional discussion of the existing literature in the introduction would likely be

C1

more effective.

Interactive comment on Wind Energ. Sci. Discuss., <https://doi.org/10.5194/wes-2019-63>, 2019.

C2