

Wind Energ. Sci. Discuss., referee comment RC2
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Comment on wes-2021-99

Anonymous Referee #2

Referee comment on "A multipurpose lifting-line flow solver for arbitrary wind energy concepts" by Emmanuel Branlard et al., Wind Energ. Sci. Discuss.,
<https://doi.org/10.5194/wes-2021-99-RC2>, 2021

Interesting paper showing a very useful update to the OpenFAST software suite.

General comments:

- Although this is a great addition to the public available OpenFAST software, it would be great to make the novelty of the research in the paper stand out better. The methods presented are mostly already used in wind energy and there could be more emphasis on new scientific findings obtained using this tool. It is recommended to focus more on the novelty aspect to make a better contribution to wind energy sciences.
- In the specific cases many open ends are described which should be topic of future research. Although very difficult, it would be helpful if the paper can be more conclusive on some sub-topics to progress beyond the current state of the art.

Specific comments

- The 'we'-form is widely used throughout the paper which to the reviewers opinion should be prevented.
- Section 3.2
Would it be interesting to showcase the effect of regularization parameters for a wind turbine application rather than for an elliptical wing?
- Section 3.3
Can the authors comment on the discrepancy between OLAF and BEM observed in Figure 4? Should these models give identical results for a constant and uniform wind case or not?