

Reviewer comments

- **Manuscript title:** Scaling effects of fixed-wing ground-generation airborne wind energy systems
- **Authors:** Markus Sommerfeld, Martin Dörenkämper, Jochem De Schutter, and Curran Crawford
- **Reviewer comments:**

The proposed paper is a great contribution to the AWE technology, and it would be helpful for any team want to rescale their project. It can predict and demonstrate an estimation for the expected power and AEP based on an existing reliable quasi-steady state reference model. My recommendation for this paper is accepted with minor comments. It is suggested to have the following modifications:

- Add a section for the nomenclature in the beginning of the paper.
- Revise the paper one more time more carefully. Some typos are appearing at line 61 “from small to to utility”, line 249 “the chosen initialization The optimization … ”, line 388 “rated power. Beyound rated”, etc ...
- In page 3, line 70, it is recommended to move the paragraph “For a detailed description of the WRF model and clustering algorithm see Sommerfeld et al. (2020).” To the section 2.
- It is an optional for the author to add the mathematical model for the cited paper where you used as a reference model.