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Comment on wes-2021-120

Zhiyu Jiang (Referee)

Referee comment on "Floating offshore wind turbines: Installation, operation, maintenance and decommissioning challenges and opportunities" by Rahul Chitteth Ramachandran et al., Wind Energ. Sci. Discuss., <https://doi.org/10.5194/wes-2021-120-RC1>, 2021

This paper presents an interesting review of the challenges and opportunities of floating offshore wind turbines. The paper is well-written and easy to follow. There are a few concerns that should be addressed.

- The title of the paper covers a broad range of interesting subtopics including installation, operation, maintenance, and decommissioning. However, the title appears to be over-ambitious, as the paper only addresses these topics incompletely. It is recommended to revise the title to better reflect the content.
- The motivation for this paper should be further strengthened, given a few existing review papers on similar topics. To the reviewer, the discussion of cost modelling of floating wind turbine marine operation is particularly interesting. Many relevant papers have been properly reviewed, but it would be better if the authors can do some quantitative studies to show the cost components of marine operations with clarified assumptions. For example, given the day rates of vessels and existing procedures of marine operations, is it possible to compare the installation costs of spar, semi-submersible floating wind turbines?
- The paper has presented many interesting figures. It is not clear if copyright permissions have been obtained for these figures.
- The language is acceptable, but a check should be done to avoid a mixed use of American/British spelling in the manuscript.