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Interactive comment on "Pathways to bring the costs down of floating offshore wind farms in the Atlantic Area" *by* Juan José Cartelle-Barros et al.

Anonymous Referee #2

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In this paper, LCOE of a floating wind farm based on the concept of TELWIND was performed. The paper requires a major revision.

The language of the paper should be improved. The authors should also use the proper terms in the area of offshore wind.

The paper is too brief and lacks many details in particular on the cost analysis.

It lacks of the details about the TELWIND concept. It is not clear to me whether an engineering design was made so that the structural details are determined and used for the estimation of fabrication cost. The dimension of the concrete platform and mooring system were not given.

On page 3, when calculating the power production, the wind speed distribution and the

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Discussion paper

power curve were used. However, no detailed values of the distribution parameters and the power curve of the 10MW wind turbine were given. How about the wake effect in the floating wind farm and would it reduce the total power production as compared to the sum of the individuals?

The life cycle cost model was introduced on pages 3-4. However, it is very difficult to understand what input parameters are used and how the unit cost for example for fabrication was obtained. It is also not clear whether the operation and maintenance costs are included or not.

Comparison of the LCOE was made for different locations. But what are the assumptions made behind the analysis. Did the authors re-design their floating wind turbines according to the local environmental data? It is important to compare the power output and the cost of the floating wind turbine separately to see the effect.

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