Interactive comment on "Polynomial chaos to efficiently compute the annual energy production in wind farm layout optimization" *by* Andrés Santiago Padrón et al.

Anonymous Referee #1

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Nice paper - the method could improve the efficiency of wind farm optimization.

Two simple questions, that might be addressed in the paper:

- What if the wind speed does not nicely follow a (single) Weibull distribution? Is there a specific added complexity that might render the method less efficient than the rectangle method?

- Do you think complex constraints, e.g. water depth, wake-induced loads, shipping routes (for support vessels), could be more efficiently handled with the new method?