

# Response to Reviewers

*Manuscript: Impact of inflow conditions and turbine placement on the performance of offshore wind turbines exceeding 7 MW*

*Manuscript ID: WES-2025-32    Journal: Wind Energy Science*

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We thank the reviewers for the positive evaluation of the revised manuscript and for supporting publication. We appreciate the reviewer's comments from the previous round, which helped improve the clarity and quality of the manuscript.

## Reviewer 1

**Comment 1:** The Abstract consistently uses the term “active power deviation”. However, the main text frequently switches between “power deviation” and “ $\Delta P$ ”. Please unify the terminology throughout the manuscript for consistency.

**Response:** Thank you. We have unified the terminology throughout the manuscript and now use “active power deviation” (with the corresponding abbreviation/notation defined once and used consistently thereafter), including the main text, figure captions, and Appendix C.

**Where:** Abstract, main text (Methods/Results), figure captions, and Appendix C.

**Comment 2:** The term “turbulence intensity (TI)” is defined multiple times in the manuscript. Once defined, it is not necessary to restate the full term repeatedly. Please streamline for conciseness.

**Response:** Thank you. We have streamlined the terminology by defining “turbulence intensity (TI)” once and using “TI” thereafter, except where a full term is needed for clarity (e.g. first occurrence in a section if required by style).

**Where:** Abstract and relevant sections in the main text (including section headings/captions where applicable).

**Comment 3:** Please ensure tense consistency in the Methods section (e.g., revise “These slopes are computed over the same ...” to “These slopes were computed ...” in Section 4.2).

**Response:** Thank you. We revised the Methods text for tense consistency, including the example noted.

**Where:** Methods section (including Sect. 4.2 in the revised manuscript numbering).

**Comment 4:** Please correct the grammatical error “may not fully mitigated” to “may not be fully mitigated.”

**Response:** This grammatical error has been corrected.

**Where:** Revised in the corresponding sentence in the main text.

**Comment 5:** In Section 2, the manuscript states “over 600.000 10min intervals.” The formatting “600.000” may be misleading.

**Response:** We corrected the number formatting for clarity (e.g. “600,000”).

**Where:** Sect. 2.