

REVISION TO MANUSCRIPT DRAFT

Wind Energy Science Discussion

The eco-conscious wind turbine: bringing societal value to design

Dear Associate Editor,

In this revised version we have fixed a few small issues:

- The label of fig. 5 was changed to “at 50 m”, while it was previously erroneously indicated as “at 50 ms⁻¹”.
- In fig. 12, the range of LCOE change was excessive.
- Additionally, the colors used for figs. 6, 11 and 12 were inconsistent and have now been modified.

Additionally, we noticed that we had often used the adjective “societal” when in reality referring to effects caused on the environment. To improve clarity, we have rephrased several sentences and also changed the title. Additionally, we have changed the name of a metric from “Impact of Energy” to “Environmental Cost of Energy”, because this helps highlight the parallelism between economic and environmental metrics. We updated the notation and figures accordingly, and -for extra clarity- we have also included a new table (no. 1 in the new manuscript) reporting all metrics considered in the paper.

All changes are highlighted in the attached document, with additions marked in blue and deletions in red.

Thank you, and best regards

The authors (Helena Canet, Adrien Guillore, Carlo Bottasso)