

Interactive comment on “A Systematic Approach to Offshore Wind Turbine Jacket Pre-Design and Optimization: Geometry, Cost, and Surrogate Structural Code Check Models” by Jan Häfele et al.

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We thank the referee for his/her valuable comments.

Find below the list of changes and some comments. The revised document is attached to this comment.

(1) This is probably mistakable. The paragraph from page 4, line 24 to page 5, line 10 summarizes five common problems, from our point of view, leading to nonoptimal structures. As stated on page 5, line 15ff. the present approach addresses these

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issues: "The goal of the current work is to provide a basic jacket model that can be efficiently used in conceptual studies and optimization approaches by preventing the issues stated above and providing a basis for more realistic designs and mainly using mathematically manageable equations." To highlight this aspect, it is repeated in the conclusion section in the revised version. We hope that this point is resolved in this way. (2) This is corrected in the revised version. (3) Most equations have no reference. However, in the revised version the explanations of some equations are more detailed: - Equations (10), (11), and (12) can be derived from Figure 3. This important reference was missing and has been added. - The explanation of equations (19), (20), and (21) has been improved. - The meaning of each addend in the equations (24), (25), and (26) and some explanations have been added. (4) We use latin letters in Figure 2 (a-b-c-d) and the example (a-b-c) now. (5) This is corrected in the revised version. (6) This is corrected in the revised version.

Please also note the supplement to this comment:

<https://www.wind-energ-sci-discuss.net/wes-2018-39/wes-2018-39-AC1-supplement.pdf>

Interactive comment on Wind Energ. Sci. Discuss., <https://doi.org/10.5194/wes-2018-39>, 2018.