

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.

Anonymous Referee #1

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This paper describes a systematic strategy to provide a basic offshore wind turbine jacket model that can be efficiently applied in conceptual studies and optimization techniques. This strategy presents a basis for more realistic designs and mainly using mathematically manageable equations. The result of this work is suitable for scientific and industrial applications. Also, the contents of this manuscript are interesting. However, I think the author should also address the following issues for improving the quality of this paper: (1) Could you describe your academic contributions for this approach? Or could you explain the difference between your theory and the others to

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reflect the "new". (Briefly) (2) In abstract, (The outcome can be utilized for preliminary design studies "and" jacket optimization schemes "and" is suitable for scientific "and" industrial applications.) needs to be revised. (3) Mathematical equations are derived by what criteria? There is not any reference. For example: equations [10-12], [19-20] and [24] (4) In the text and content of the figures, use Latin letters to represent concepts or sub-sections. On page 25, line 1 and 2; (1, 2) :(a, b) Figure 2: (1-2-3-4):(a,b,c,d) (5) On page 18, line 13 What is the "DNV GL RP-0005 (?)" ? (6) On page 20, line 27 Wrong Correct "initial guess," "initial guess",

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