

Assessing the impact of model simplifications on the response of a floating wind turbine

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ABSTRACT

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1. Introduction

Ensaio com SIL com algumas limitações

2. Description of the experiment and its limitations

2.1. Model properties and experimental setup

- Características da FOWT, RNA, ancoragem
- Principais dimensões do tanque
- Condições de onda e vento

2.2. Implementation of a software-in-the-loop approach for aerodynamic loads

2.3. Main limitations of the experiment

3. Numerical models

Modelos numéricos que foram feitos com diferentes graus de proximidade pro ensaio

4. Comparison between the experiments and numerical simulations

5. The impact of model simplifications on the response of the FOWT

6. Conclusions


CRedit authorship contribution statement

Lucas H. S. Carmo: Conceptualization, Methodology, Software, Validation, Formal analysis, Writing – original draft. **Alexandre N. Simos:** Conceptualization, Formal analysis, Writing – review, Supervision. **Pedro C. de Mello:** Experiments.

Declaration of competing interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

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