

## Hydrodynamic analysis of an energy converter

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### Abstract

*The objective of this paper is to analyze the hydrodynamics of a wave energy capture system of „absorber point” with a degree of freedom. It has been calculated the depreciation hydrodynamic coefficients, additional mass, and excitation force and were analyzed three different geometric shapes float symmetrical axis, and the result of comparing the results obtained optimal was geometric shape of the float. The study focuses on hydrodynamic calculations and not on the mechanics of the generator.*

**Keywords:** converter, wave, hydrodynamic, added mass, point absorber

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