Deliverable 9: Scientific publications

Dimitrios Konispoliatis; Ioannis Chatjigeorgiou; Gregory Grigoropoulos; Dimitrios Liarokapis; Anargyros Mavrakos; Kimonas Kardakaris; George Mylonas; Ioannis Trachanas

School of Naval Architecture and Marine Engineering, National Technical University of Athens, Greece. dkonisp@naval.ntua.gr

ABSTRACT

This Deliverable 9 encompasses a portion of the work conducted within WP3 "Dissemination and Communication Activities." The outcomes derived from the ETHOS project, along with the associated expertise, have been disseminated to the international renewable energy community via participation in prominent conferences and publications in reputable scientific journals. The primary objective of this D9 is to present the publications produced throughout the project in esteemed journals and conferences specializing in marine structures and offshore energy.

INTRODUCTION

As part of the dissemination of the ETHOS project's results, the following actions were undertaken:

- Creation and maintenance of an active website detailing the project's objectives, activities, and outcomes: https://wec.gr/
- Development of the ETHOS project logo (Image 1) to facilitate easy identification of the project by the general public.

Image 1: ETHOS project logo

- Publication of project results in esteemed international scientific journals and conferences. During the course of the project, the following publications and presentations were generated. It is important to highlight that, initially, the technical annex anticipated the dissemination of 3 to 4 publications; however, the actual number of publications significantly exceeded this estimate, nearly doubling the initially planned outputs within the scientific community.
    - Scientific Journals

      Konispoliatis, D.N. Floating oscillating water column wave energy converters: A review of developments. Journal of Energy and Power Technology **2024**, 6(1).

Konispoliatis, D.N. Hydrodynamic analysis of a dual chamber floating oscillating water column device. Applied Ocean Research **2025**, 154, 104340.

Konispoliatis, D.N.; Mavrakos, A.S. Comparative analysis of catenary and TLP mooring systems on the wave power efficiency for a dual-chamber OWC wave energy converter. Energies **2025**, 18, 1473.

Delizisis, P.; Konispoliatis, D.N.; Mavrakos, S.A.; Chatjigeorgiou, I.K. Second-order diffraction forces on a vertical cylindrical body using theoretical, numerical formulations and CFD approaches. Journal of Offshore and Polar Engineering (*Accepted for publication. In proofreading stage*)

- <u>Scientific Conferences</u>

Konispoliatis, D.N.; Chatijigeorgiou, I.K.; Liarokapis, D.; Mavrakos, A.; Grigoropoulos, G. Theoretical and experimental analysis of a dual chamber OWC device. Proceedings of the 16th European Wave and Tidal Energy Conference (EWTEC) **2025**, 7-11 September, Funchal, Portugal

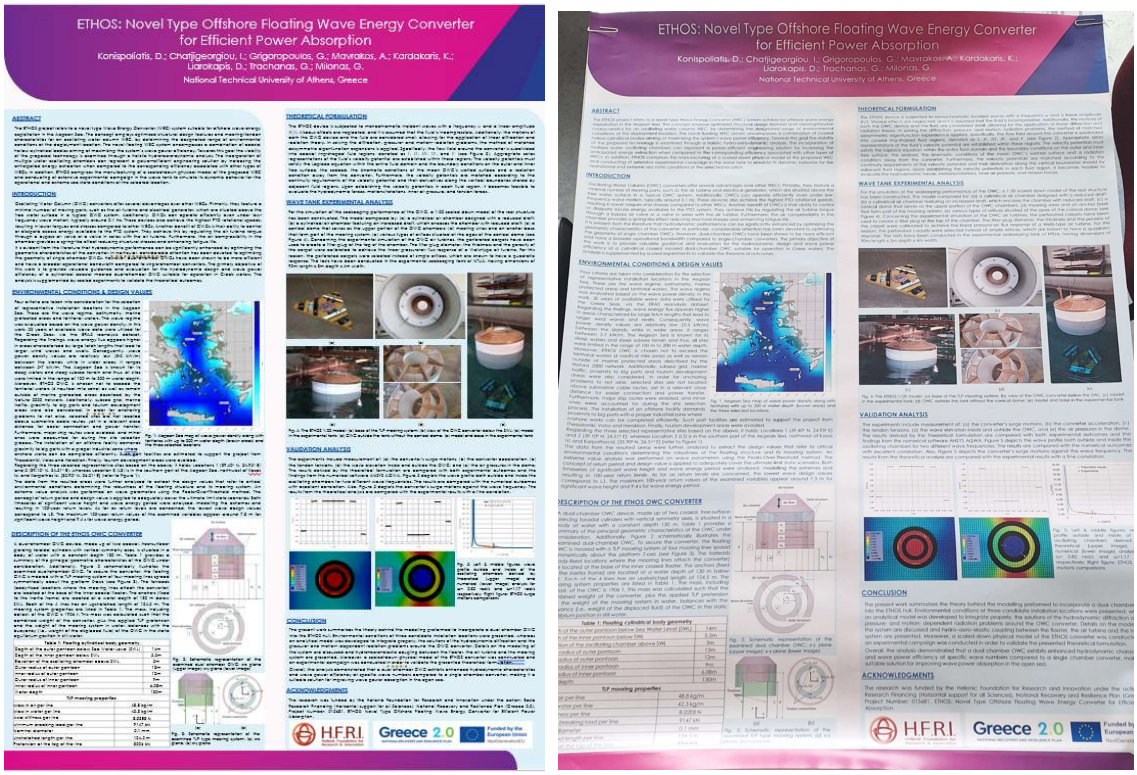
Delizisis, P.; Konispoliatis, D.N.; Mavrakos, S.A.; Chatjigeorgiou, I.K. Second-order forces on a cylindrical wave energy converter using theoretical, numerical and CFD formulations. Proceedings of the 34th International Ocean and Polar Engineering Conference (ISOPE) **2024**, 16-21 June, Rhodes, Greece

- Development of a banner related to the project, which is utilized during dissemination activities aimed at graduate students of the School of Naval Architecture and Marine Engineering, NTUA, as well as postgraduate students from the School of Naval Architecture and Marine Engineering and the School of Civil Engineering, NTUA (Image 2).

(a) (b)

Image 2: ETHOS banner: (a) in digital format; (b) in printed form

- Development of two posters related to the project, which are utilized during dissemination activities aimed at graduate students of the School of Naval Architecture and Marine Engineering, NTUA, as well as postgraduate students from the School of Naval Architecture and Marine Engineering and the School of Civil Engineering, NTUA (Image 3).



(a) (b)

Image 3: ETHOS poster: (a) in digital format; (b) in printed form