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- Marco Klein, German Aerospace Center, Germany
- Pentti Kujala, Tallinn Univ. Techn., Estonia
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- Elias Yfantis, University of Nicosia, Cyprus
- George Zaraphonitis, NTUA, Greece
- Peilin Zhou, University of Strathclyde, UK
- Burak Zincir, Istanbul Technical University, Turkey

Local Organising Committee

- Lúcia Moreira, Técnico Lisboa, Portugal
- Fernando Santos, Técnico Lisboa, Portugal
- Galila A. Abdelghany, Técnico Lisboa, Portugal

Location of the Event

The Conference will be held at the Congress Centre on IST's campus in Lisbon. Remote transmission may be considered to allow participation for those who cannot travel.



Organized by



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1st International Conference on Decarbonising Waterborne Transportation



Final Announcement and Call for Papers

Lisbon, Portugal

25 – 26 May 2026

<http://www.centec.tecnico.ulisboa.pt/dewatra>

1st International Conference on Decarbonising Waterborne Transportation

The “green shipping” or “sustainable shipping” is an objective for the shipping industry to transport goods without greenhouse gas (GHG) emissions.

The need to expedite the decarbonisation of waterborne transportation is paramount, given the time-sensitive nature of climate change mitigation. In the pursuit of a more sustainable and environmentally responsible future, several research questions are posed to the community:

How can the maritime industry reduce GHG emissions and transition to sustainable shipping practices?

- What are the most effective strategies for achieving short-term and long-term reductions in GHG emissions in the maritime sector?
- What technological innovations in ship design and propulsion systems can enhance energy efficiency and reduce emissions?
- Which alternative fuels and onshore supply infrastructures need to be developed for their practical emission-free use on board ships?

These topics, which will be addressed at this Conference, are also the main concerns of the COST Action DeWatra, which is promoting the Conference. The Conference is not limited to COST Action members but aims to attract a broader audience engaged in any aspect of reducing GHG emissions in maritime transportation.

It is expected that the Conference will influence decision-makers, shape policies, promote sustainable practices, enhance industry knowledge, and contribute to economic growth and job creation in the shipping industry

DNV Challenge

DNV will sponsor a Vessel Efficiency Challenge. At the Conference, they will provide a dataset of a vessel, including operational, sensor, weather, and routing data. Using this data, interested teams will be asked to analyse and model vessel performance. At a specified deadline, teams must submit a clear, evidence-based recommendation for a) an operational efficiency improvement or b) a viable retrofit option to reduce fuel use and emissions.

Specific Topics

Although contributions will be accepted as long as they deal with any relevant aspect of Decarbonising Waterborne Transportation, contributions are especially invited on the following topics:

- ✎ Assessment of atmospheric emissions from shipping
- ✎ Hydrodynamic hull and propulsor design for energy-efficient performance
- ✎ Operation of ship propulsion systems with alternative fuels
- ✎ Renewable energy contributions to ship energy efficiency
- ✎ Onboard decision support systems for energy-efficient ship operation

Conference Secretariat

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Abstracts and Paper Submission

Authors are invited to submit their abstract(s), approximately the length of two A4 pages, on the Conference web page.
Authors of approved abstracts should prepare a presentation for the Conference.
After the Conference, authors will have the opportunity to submit their full papers for review before they are included in a book to be published by CRC Taylor & Francis.

Important Deadlines

Abstract Submission Deadline	15-04-2026
Early Bird Registration	31-03-2026
Full paper submission	30-06-2026

Registration Fees

Category	Early bird fee until 31-03-2026	Regular fee after 31-03-2026
Participants	300 €	400 €

Fees include: Digital Book of Abstracts; Coffee-breaks; Lunches and Conference Dinner (25 May).
DeWaTra members confirmed by 01-11-2025, should process their registration through the COST Action.

