

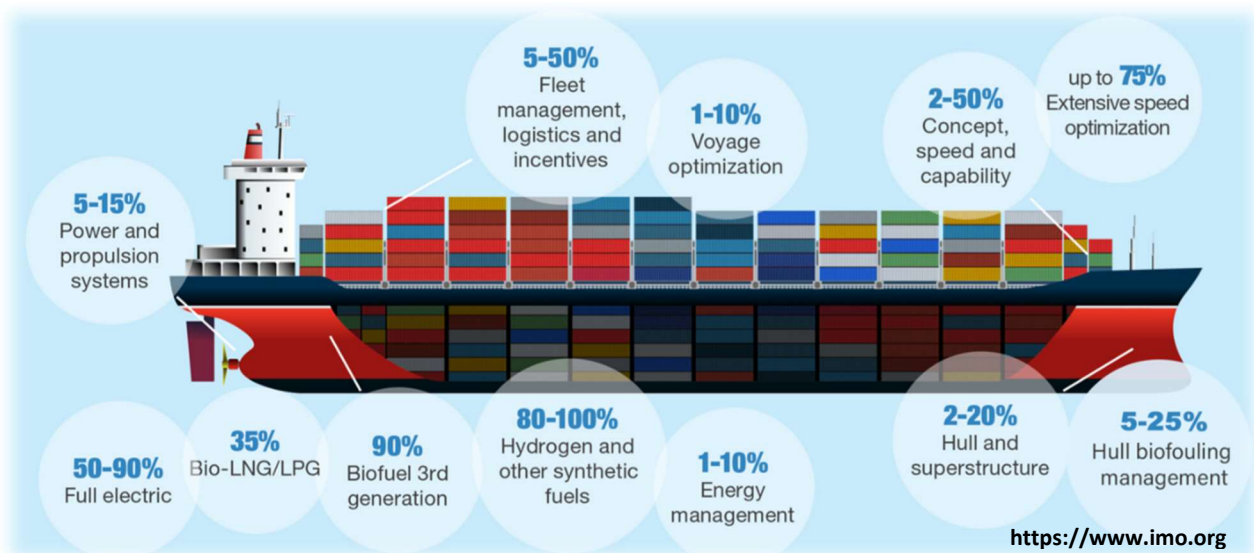
Guest Lecture

Future shipping and maritime decarbonization

Ulla Tapaninen, Tallinn University of Technology

18.11. 14:00-14:45, Otakaari 4, Espoo, Lecture Hall 215

Abstract: The maritime sector is in turbulence. IMO has stated that shipping should be carbon neutral by 2050. It is estimated that trillions of euros will be needed to achieve this target. Shipping companies all over the world are looking tightly at their business concepts to see whether the coming strict environmental regulations bring them challenges or opportunities. There are different approaches for reducing emissions from shipping, such as low-carbon fuels, improved ship design, and operational solutions. Energy companies are currently in an accelerating debate about fuel solutions and naval architects about new technological solutions, but in the short term, the operational solutions can still bring fast the biggest emission reductions at the lowest cost. This lecture gives an overview of the coming regulations, and alternative options shipping companies have when preparing themselves for the non-carbon future.



Biography: Ulla Tapaninen, Associate Professor in Maritime Transport, has over 30 years of experience in logistics and maritime transport research and development work. She received her Ph.D. in logistics modeling at the Helsinki University of Technology in 1997. After her doctorate, she worked for ten years as a development manager and environmental manager in a large Finnish ro-ro shipping company Finlines Plc. Between 2006 – 2012 she worked as a professor of maritime logistics at the University of Turku, specializing in maritime and port operations, IT, and maritime safety. Thereafter, she served as Senior Specialist and

Head of Unit for the City of Helsinki in port and cross-border transport development projects. She started as an Associate Professor of Maritime Transport at the Estonian Maritime Academy in Tallinn University of Technology in 2021, focusing on sustainable shipping and maritime governance. Dr. Tapaninen has published dozens of scientific and professional publications, and she is a frequent speaker in seminars in the areas of maritime and cross-border transportation, logistics information handling, and maritime safety and environment. Ulla Tapaninen's maritime economics can be read in her book *Maritime Transport* (Kogan Page 2018). She can also be followed on her blog: <https://ullatapaninen.net/>.