

Invited
Speaker



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**The role of H2-based technologies
for maritime decarbonization**
S0102

TALK TITLE

The role of H₂-based technologies for maritime decarbonization

ABOUT

Eng. Andrea Borzacchiello, Mechanical Engineer of the Fincantieri Company since 2019. He previously worked in the Fincantieri Oil & Gas S.p.A. as Project Engineer for an innovative project and then, since 2021, he moved to the Innovation Department of the Corporate Unit of the Group. He's now the Lead Project Engineer of the Wave 2 the Future Project, the Fincantieri's IPCEI Hy2Tech project, as responsible for its technical coordination. He's also, within the Innovation Department, the Innovation specialist for all the innovative electrification projects active in Fincantieri Group.

ABSTRACT

EU and international rules are creating the conditions to make the sector evolve with a breakthrough change from fossil fuels to net zero emission sailing. This shift requires new fuels, new infrastructure, new technologies, new ship design, new skills and a circular approach.

Fincantieri has a clear roadmap which is targeting by 2035 to allow maritime to be ready for the zero-emission target by 2050. Hydrogen will play a significant role and, leveraging from previous business experience and recent R&D projects.

We have recently started a coordinated approach for the onboard adoption of H2-technologies within the framework of the IPCEI-Hy2Tech. The «Wave 2 the Future» (W2F) is aiming at realizing green hybrid power generation systems, CCGT turbines and first large scale fuel cell application onboard cruises. The integrated nature of the IPCEI project, which is embracing an entire ecosystem, the initial results and current challenges of W2F will be presented.

