

Invited
Speaker



**MATHIAS
MOSER**

Head of Technology and
Exhaust Aftertreatment
MAN Energy Solutions

**Decarbonization with future fuels and
new technologies in the maritime industry**
S0301

TALK TITLE

Decarbonization with future fuels and new technologies in the maritime industry

ABOUT

Education: PHD mechanical engineering at Technical University of Graz/Austria (graduated in 2009)

Company: more than 12 years at MAN Energy Solutions

Former position at MAN: Department Manager at Automation & Control

Current position: Head of Technology and Exhaust Aftertreatment.

Responsible of after treatment systems for 4-stroke and 2-stroke engines. Furthermore, responsible for technology development covering fuel cells, battery hybrid systems, digitalization and design concepts.

ABSTRACT

MAN Energy Solutions, a leading provider of two-stroke and four-stroke engines, is preparing their engines to utilize green fuels such

as methanol, ammonia, and hydrogen. In addition to the use of new fuels, hybridization with batteries and fuel cells could play a significant role in the decarbonisation pathway. Whereas batteries could be considered as a well-established technology, fuel cells are still in the early stages of market introduction. The presentation will explore promising technologies, provide insights into recent developments and will discuss their respective advantages and disadvantages. Additionally, it will offer insights into the essential requirements that new technologies, such as fuel cells, must fulfill to enter the maritime market.

