

Invited  
Speaker



**ROB  
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Sector Lead for Green  
Fuels within Power-to-X  
Topsoe

**Clean Ammonia as Marine fuel.  
Opportunities and challenges.  
S0202**

## TALK TITLE

Clean Ammonia as Marine fuel. Opportunities and challenges.

## ABOUT

Rob Stevens holds an MSc and PhD degree in Chemical Engineering from Delft University of Technology, and joined Topsoe in June 2023 as the Sector Lead for Green Fuels within Power-to-X at Topsoe.

Rob is internationally recognized for his insights and skills in ammonia operations. Beginning his journey with Yara research in the Netherlands in 1997, Rob has held various pivotal global roles, focusing on ammonia production management and more recently serving as VP of technology scouting, decarbonization, and shipping fuels.

In his latest assignment as technology opportunities expert at SagaPure, a green financing start-up, Rob expanded his knowledge in climate technologies, leading to a board membership at Horisont Energi, a clean ammonia and CO<sub>2</sub> storage project developer. Rob has built a strong reputation as a thought leader through his contributions to international clean ammonia energy position papers and ammonia fuel shipping studies.

Rob currently is VP Past President at the Ammonia Energy Association,

bringing forward the responsible use of clean ammonia in new uses.

Rob also is Director of the Clean Ammonia Platform with the Institute for Sustainable Process technology in the Netherlands.

Rob now brings his wealth of experience to Topsoe's Power-to-X Commercial organization, where he will be instrumental in establishing the company as the leader in PtX solutions across green fuel.

## ABSTRACT

The presentation will give a short introduction by analysing the growth scenarios for clean ammonia and methanol in new markets.

The competition for biogenic carbon will likely bring forward ammonia as main clean marine fuel. The challenges for the ammonia uptake as shipping bunker are related to:

- Scaling of blue and green ammonia capacity
- Scaling of bunkering infrastructure
- Transparency and certification requirements in bunkertrade.
- Design according to the latest safety standards for vessels and infrastructure to enable acceptance of different risks of a new fuel.

