Contribution ID: **8** Type: **Oral**

The World's First Integrated Liquid Hydrogen Supply Chain: Innovation at Amsterdam Port

Tuesday 28 October 2025 10:10 (20 minutes)

As the demand for clean energy carriers grows, liquid hydrogen (LH_2) is gaining strategic importance—particularly in sectors such as maritime transport and port logistics, where energy density and cryogenic handling capabilities are critical. At EcoLog, we are leading the development of a large-scale LH_2 import and distribution terminal in the Port of Amsterdam, supported by advanced cryogenic storage and cargo handling systems for seagoing vessels and on shore terminals, developed by Gas and Heat.

This presentation will provide both strategic and technical insights from the Amsterdam project, covering infrastructure planning, investment strategy, and the key engineering decisions driving system scalability and safety. Topics will include LH_2 storage tank design, boil-off gas management, maritime refuelling interfaces, and integration with broader hydrogen value chains. We will also highlight the role of cross-sector partnerships, regulatory alignment, and modular infrastructure design in accelerating deployment timelines and ensuring commercial viability. Our experience offers practical lessons for stakeholders aiming to bridge the gap between demonstration projects and fully operational hydrogen infrastructure.

This session will be of particular value to cryogenics researchers, engineers, and industry leaders involved in hydrogen logistics, infrastructure development, and energy transition strategy.

Submitters Country

Italy

Are you a student?

No

Author Affiliations & Email Addresses

I confirm that valid email addresses and affiliations have been added for all co-authors.

Co-Author Affirmation

By clicking here, I, the submitting author, affirm that all co-authors know of and concur with the submission of this abstract.

Authors: Ms RUHOTAS, Ellen (Ecolog ltd); EVANGELISTI, sara (Gas and Heat spa)

Presenters: Ms RUHOTAS, Ellen (Ecolog ltd); EVANGELISTI, sara (Gas and Heat spa)

Track Classification: Liquid Hydrogen Technologies