

LH2 large scale transport

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9th of November 2023

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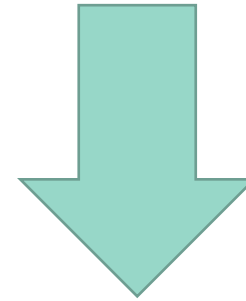
LH₂ ship transport

H2 ship transport:

- H2 production & consumption separated
- LH2 = higher mass transport
- Could LH2 ship transport draw on LNG experience..?

Challenges vs LNG:

- Lower boiling temperature (-252°C vs. -163°C) → different insulation system
- Lower heat of evaporation → higher insulation grade of tanks and piping
- High volume/low pressure → BOG = fuel
- H2 known to lead to brittleness of some materials



LH₂ - Liquefied hydrogen transport



160.000 m³ LH2 carrier

- Double wall tanks / vacuum insulation
- BOG rate is low/balanced vs. fuel demand
- Support from Shell, Equinor & TotalEnergies - AiP from DNV in 2023

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Thank you!

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