



WHEN TRUST MATTERS



**Nordic Council
of Ministers**

Nordic collaboration platform & green shipping corridor pilot studies

Eirill Bachmann Mehammer, Senior Consultant, DNV
Task Leader – Piloting and Collaboration Platform



Focus for the rest of the project (2023-25)



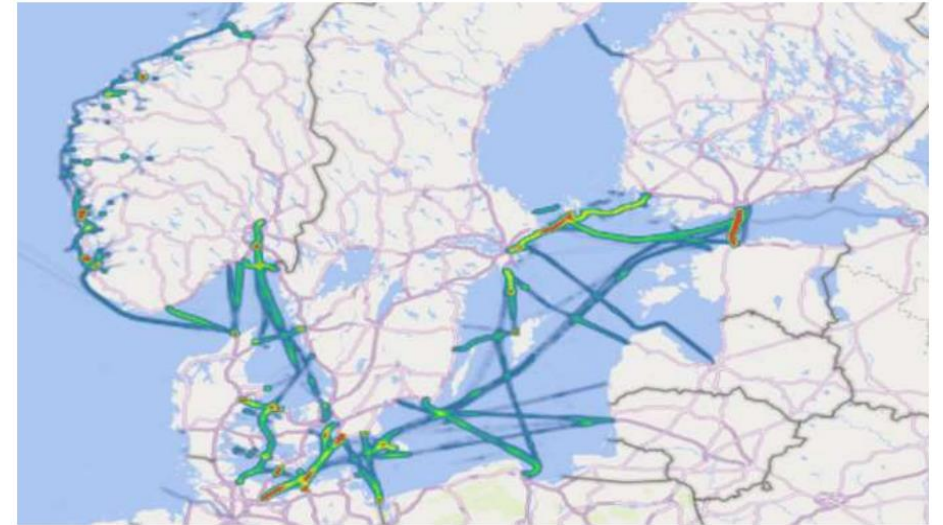
Why participate in a pilot study?

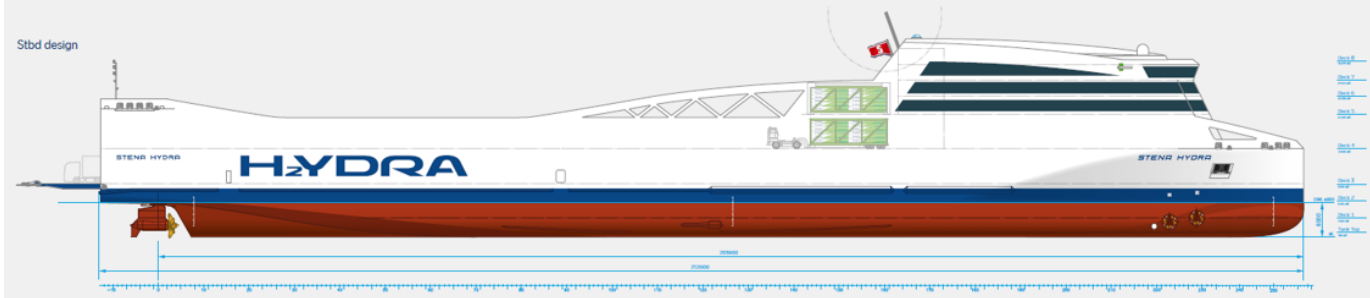
- A public-private **collaboration** with **high visibility** and direct connection to the Nordic Council of Ministers
- Network of more than 50 **partners** in the Nordic roadmap project who can take different roles:
 - **Pilot owners** decide the scope of the pilot studies
 - **Pilot facilitators** provide administrative and technical support
 - **Pilot participants** contribute with in-kind work and expertise
- **Benefits** of participation include building relationships, developing knowledge, gaining first-mover advantage, market positioning, and accessing expertise on funding schemes



Green shipping corridor pilot studies

- Ongoing work to establish 3 pilot studies with focus on:
 - Selected **fuels**
 - Key **barriers**
 - **Nordic** ship traffic
- Each pilot study will investigate **techno-economic feasibility** and could include:
 - Detailed data collection and assessment
 - Strengthened engagement of stakeholders
 - Barrier identification for selected corridor
 - Business case development





Gothenburg – Frederikshavn (Stena Line) as a green corridor

Feasibility study comparing methanol with a few other options

- Based on already performed feasibility studies.
- Assess the barriers for starting up a green corridor between Gothenburg and Frederikshavn (focusing on methanol, electricity, and biofuels) and propose strategies/measures.
- Assess and compare the solutions to identify the most relevant option/options from different perspectives including aspects such as cost, environmental impact, business case and customer proposition.

The overall aim of the study is to provide a basis for identifying and promoting the most relevant solution for a potential green corridor on the Gothenburg and Frederikshavn service so it can be introduced in the near to mid-term (roughly around 2027).



The pilot study marks the starting point for establishing green shipping corridors

Pilot study
(~1-2 years)

Realization
(~ 2-5 years)

Expected outcome of each pilot study:

- Established partnership
- Published final report assessing specific corridor, relevant fuels, and key barriers
- Provided input to the roadmap
- Prepared the ground for realization

If pilot study is successful:

- Pilot may progress to the development and execution stage
- Not funded by the project, but identification of funding options may be part of the pilot study

Nordic collaboration platform: 50+ partners

Contributing partners:



Supporting partners:

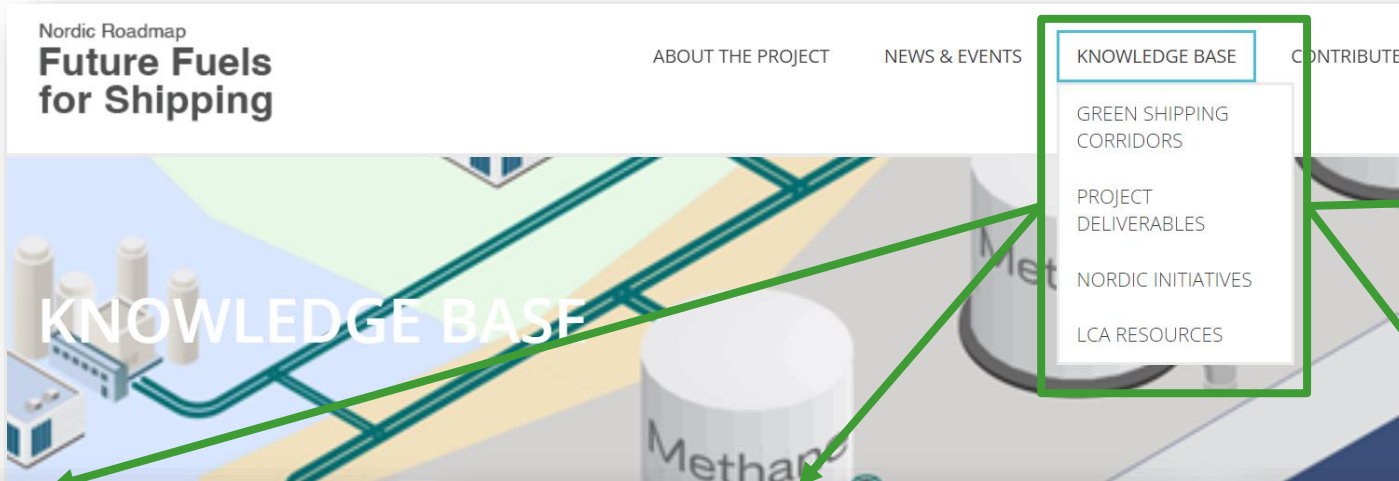


For more information, visit the project website:

<https://futurefuelsnordic.com/>



Webpage development – Knowledge base



NORDIC INITIATIVES

This site lists important Nordic Initiatives related to the introduction of future fuels.

Project title	Contributors	Location
Alternative marine fuels: Prospects based on multi-criteria decision analysis involving Swedish stakeholders	Chalmers University of Technology, IVL Swedish Environmental Research Institute	Sweden
MarF-Fuel: Electrofuels for long range maritime transport	DTU	International

GREEN SHIPPING CORRIDORS

This page lists relevant and up to date literature, announcements, and projects on Green Shipping Corridors.

Literature:

- The UK Government (2021), Policy paper – COP 26: Clydebank Declaration for green shipping corridors, <https://www.gov.uk/government/publications/cop-26-clydebank-declaration-for-green-shipping-corridors>
- DNV (2022), Insight on Green Shipping Corridors – from policy ambitions to realization, <https://futurefuelsnordic.com/insight-on-green-shipping-corridors/>
- Global Maritime Forum and McKinsey & Company (2022), Green Corridors: Definitions and Approaches. A Discussion paper from the Global Maritime Forum, https://www.globalmaritimeforum.org/content/2022/08/Discussion-paper_Green-Corridors-Definitions-and-Approaches.pdf

PROJECT DELIVERABLES

This site lists technical and strategic deliverables from the Nordic Roadmap project:

Task report	Date	Task leader
Insight into Zero-Carbon Fuels Safety and Regulations	Dec 2022	DNV
Insight on Green Shipping Corridors – from policy ambitions to realization	Nov 2022	DNV
AIS Analysis of Nordic Ship traffic	Oct 2022	DNV
Screening of Sustainable Zero-carbon Fuels	Oct 2022	Menon Economics

FUEL LIFE-CYCLE ASSESSMENT RESOURCES

This resource is meant to provide a literature reference library for GHG-emission and life-cycle assessments of future fuels. The table shows an overview of the reviewed LCA publications published in 2014-2022 including author names and included fuels. [The Life Cycle Assessment of Marine Fuels in the Nordic Region](#) provide the complete table where also the covered GHG emissions, the life cycle phases covered and other environmental impacts than climate change considered are included.

Report title	Author(s)	Fuels included
How can LNG-fuelled ships meet decarbonisation targets? An environmental and economic analysis	Balcombe, P., et al. (2021)	LNG, HFO, MDO, fossil methanol, fossil and renewable/green hydrogen and ammonia, biogas and biomethanol.
Fuels for short sea shipping: A comparative assessment with focus on environmental impact	Bengtsson et al. (2014)	HFO, MGO, biomass-to-liquid fuel, RME, LNG, LBG

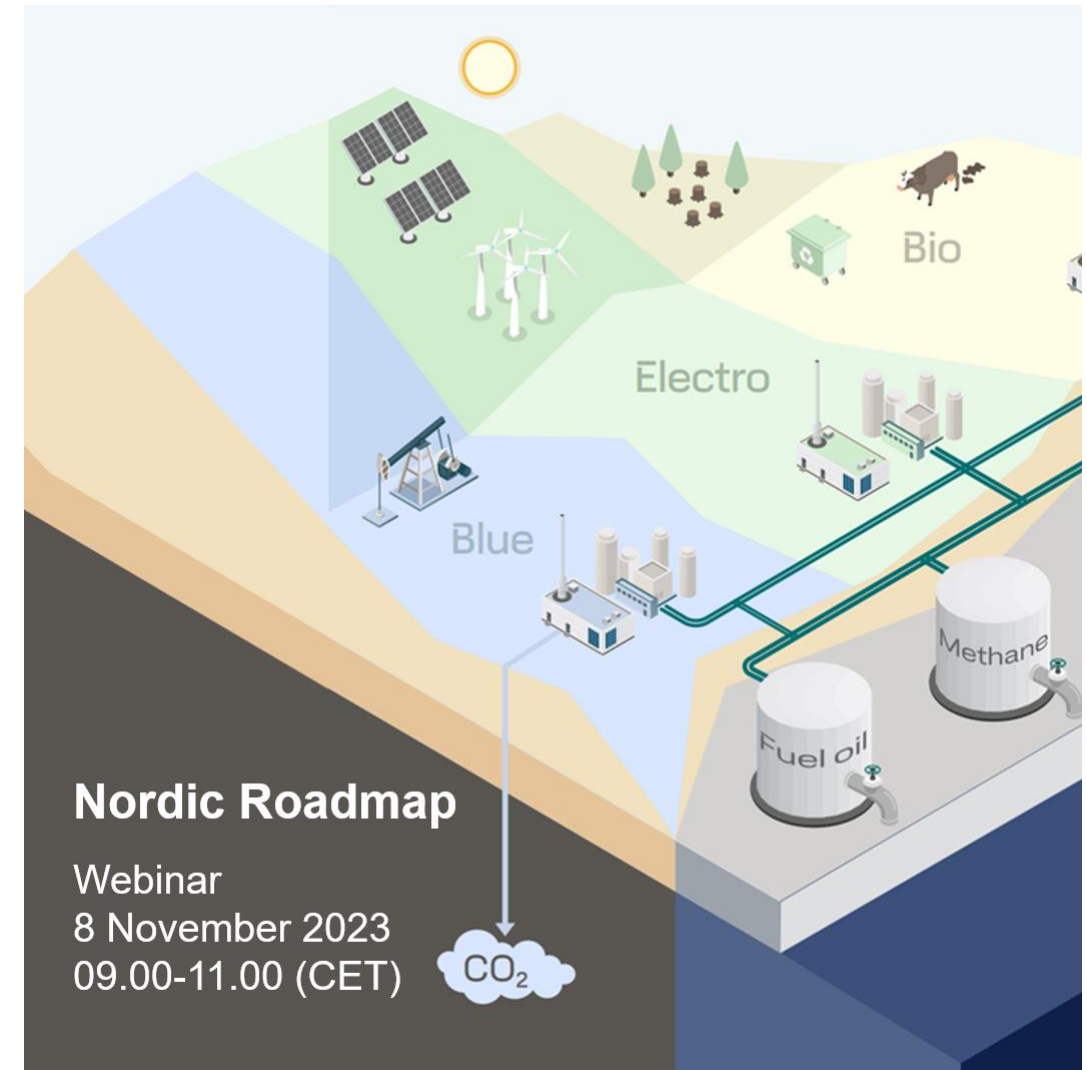
Conferences & Events

Previous events:

- [Kick-off Conference](#) in Oslo, 15 November 2022
- [Conference in Helsinki](#), 3 May 2023
- [Workshop in Reykjavik](#), 3 October 2023
- [Webinar on future fuels](#), 8 November 2023

Save the date:

- Webinar on green shipping corridors, 29 February 2024
- Workshop in Gothenburg, 11 April 2024
- Conference in Denmark, autumn 2024



For more information contact:

Task Leader – Piloting and Collaboration Platform

Eirill Bachmann Mehammer

Eirill.Bachmann.Mehammer@dnv.com

+47 40551236

www.dnv.com

