

HORIZON EUROPE PARTNER SEARCH

COMPANY NAME: Northern Xplorer AS

Topic description

Topic(s) of interest in work programme	
HORIZON-CL5-2023-D5-01-12	Demonstrations to accelerate the switch to safe use of new sustainable climate neutral fuels in waterborne transport (ZEWTP Partnership)
What part of the problem do you think you can address?	
Northern Xplorer AS (NX) plans to build a full scale on board operational demonstration (cruise ship) with a sustainable climate-neutral fuel system, including fuel distribution, bunkering, fuels storage and power conversion, by using fuel cells with compressed green hydrogen and electricity (new development of mega-batteries of about 40 MW). The combination of ship design and applied technology represents the next generation of zero-emission cruise ships and has the potential to create a new paradigm for the maritime industry.	

Your organisation skills/facilities capabilities

Organisation type (delete text which do not apply)		
Private	X	
Vital for the topic(s) of interest (delete YES or NO as applicable)		
Skills	YES	Extensive cruise ship operation experience and former founder of the environmentally friendly electric vessels "The Fjords". Highly skilled long term technical partners
Facilities	YES	Full scale zero-emission cruise ship running on green hydrogen and electricity

Former participation in European Projects

NO	
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Contribution to project

<i>What activity would you propose to do as part of the project?</i>	<i>Northern Xplorer AS contributes with a top of the notch zero-emission cruise ship including all technical solutions associated e.g., hardware, technical expertise and know-how.</i>
<i>How would this increase the likelihood that a proposal with your contribution would be successful?</i>	<i>Northern Xplorer AS (NX) contributes with a full-scale on-board demonstrator for zero-emission ship operations. The ship adopts the sustainable climate neutral fuels green hydrogen and electricity which still have significant on-board and supply chain challenges in order to satisfy the needs of maritime transport.</i>

Administrative Information

What is your desired role in the project? (delete text which do not apply)	
	<i>Partner</i>
Your details	
<i>Contact person name</i>	<i>Kristine Gjessing</i>
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<i>Organisation Name</i>	<i>Northern Xplorer AS</i>
<i>Country</i>	<i>Norway</i>
<i>Website</i>	<i>https://northernxplorer.com/</i>
<i>Link to other relevant resources</i>	<i>https://www.linkedin.com/company/northern-xplorer/</i>

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Description of your organisation

Northern Xplorer AS (NX) was established by three entrepreneurs in 2019 and has since recruited several key personnel in addition to an actively working Executive Board of Directors and a large network of dedicated industrial partners who have been involved in the project since 2019.

The founders have extensive experience from the cruise ship industry and have previously founded and operated the environmentally friendly electric passenger vessels “The Fjords”.

NX’s main technology partners are:

- ***Multi Maritime:*** A ship design company working with owners and shipbuilders all over the world and with more than 100 self-designed ships in operation.
- ***ABB:*** A technology integrator with great implementation capacity on large projects who has in recent years developed systems for batteries and smaller fuel cells.
- ***WestSEA:*** A shipyard located in northern Portugal recognized for its innovation and ability to execute and deliver integrated solutions.
- ***DNV:*** A global independent quality assurance and risk management company.

Northern Xplorer AS is currently in a funding process.

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Other relevant Information

Northern Xplorer's (NX) vision is: *"Discovering the world with the least possible footprint while creating sustainable economies"*.

There are currently no zero-emission cruise ships in operation. There are a few ships with small battery packs that can be used while the ship is at port or that enable sailing over a very limited distance, but these ships do not meet the future climate goals in line with international climate commitments for 2030 and 2050.

NX takes the authorities' resolution for zero-emissions for cruise ships and ferries in the Norwegian World Heritage fjords in 2026 seriously and aims to set a new standard and become the world's first zero-emission cruise ship company, drastically reducing its traveler's footprint. To achieve zero-emissions, NX plans to use fuel cells with compressed green hydrogen and electricity (new development of mega-batteries of about 40 MW). The combination of ship design and applied technology represents the next generation of zero-emission cruise ships, having the potential to create a new paradigm for the maritime industry

Initial plan is to build four ships each with a capacity of 250-300 passengers, but the project is scalable to the rest of the world.