

SARGASSO

Request for Development (RFD)

Title of RFD: **Nordic network for the supply of new maritime fuels**

Organization: Fornybarklyngen (The Renewable Energy Cluster),
Norway

Deadline for expression of interest: 2019-12-19

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Summary of RFD

This is an initiative from The Renewable Energy Cluster (Norway) in cooperation with Swedish Maritime Technical Forum. We are reaching out to other Nordic parties to test the interest for this proposal, and to invite participants.

The invitation regards participation in a Nordic network around the concept of the port as an energy hub and the supply of new fuels for maritime purposes, to exchange examples and knowledge as basis for further coordinated development within the Nordic countries.

Background

The maritime sector is an important contributor to climate emissions and The International Maritime Organisation (IMO) has set a target to cut the shipping sector's overall CO₂ output by 50 percent by 2050. A part of this can be achieved by increasing the efficiency of existing operation, but the main factor is the change of fuel. There is a limited amount of options ready to replace traditional fuels and this raises the need for new technologies, infrastructures and value chains to enable supply and use of new renewable fuels for maritime application. On the other hand, this also opens for new development and business opportunities.

We suggest addressing this at a Nordic level. The Nordic countries are frontrunners in the green transition. There are work on new renewable fuels in progress in all Nordic countries. As a steppingstone from the national to the global level, a Nordic approach

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can be beneficial due to similarities in environmental focus, political framework and maritime activity.

The Renewable Energy Cluster (Fornybarklyngen) is a membership based, not for profit organisation, working with sustainable value creation and the transformation to the renewable society. The clusters point of gravity is the university city of Trondheim, the technology capital of Norway. One focus area for the cluster is mobile energy use, and the supply of renewable fuels for land and sea transport. With this proposal we will test the interest to cooperate on a Nordic level around the topic of supplying new fuels for maritime application.

Swedish Maritime Technology Forum (SMTF) is a member network that supports subcontractors and organizations tied to shipping and the maritime industry. SMTF is based in Gothenburg and Lund and is a part of RISE, Research Institutes of Sweden.

Scope of the project

To address the urgent development of sustainable fuels for the maritime industry we propose to establish a Nordic network and carry out four workshops (in Norway, Denmark, Sweden and Finland) to gather maritime industry, ports, energy suppliers, technology suppliers, R&D-institutes and governmental bodies for exchange of examples and knowledge as a basis for further coordinated development. Example of the issues that can be discussed at the Workshops are;

- International trends and regulations
- National policies and regulation in the Nordic countries
- New fuel alternatives (i.e. electricity / battery, Hydrogen, biofuel, methanol, ammonia)
- Supply of new fuels (production, distribution, bunkering etc)
- Port infrastructure (On shore power supply, smart grid, local energy production etc)
- Framework conditions, value chains and business models

The goal is to promote learning across the value chain, contribution to trend analysis, identification of technology status and market development prognosis to facilitate more coordinated and rapid transformation to the use of renewable energy as fuel for maritime purposes and thus reduced carbon emission. And at the same time identify need and potential for new technology and solutions, and mobilization of suppliers for this development.

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Preferred Partnership

We are looking for project partners in the other Nordic countries that will involve participants and host one workshop each in the period of April 2020 – march 2021, and for participants that up-front can state interest for participation as a basis for further planning and possibly a stage 2 project application.

Opportunities for partners

This opportunity is a part of a stage 1 application for Nordic Innovation for the call “Sea Meets Land”, deadline 14.01.2020

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