



**Samdráttur á losun  
gróðurhúsalofttegunda og aukin notkun  
vistvænna orkugjafa í sjávarútvegi**

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# The Nordic countries



The marine industry is very important for the Nordic countries. A few examples are:

- Shipyards
- Engineering
- Fishing

# Oil consumption

- The Nordic countries use almost 100.000 barrels of oil per day, just for shipping and fishing
  - 10% reduction would be equivalent of finding a large oil well with no capital cost and no harmful emissions!
- Fish is "oil expensive":  
1 kg of fish can cost upwards  
of 0,5 kg oil!
- Very fragile environment  
and increased Arctic activities

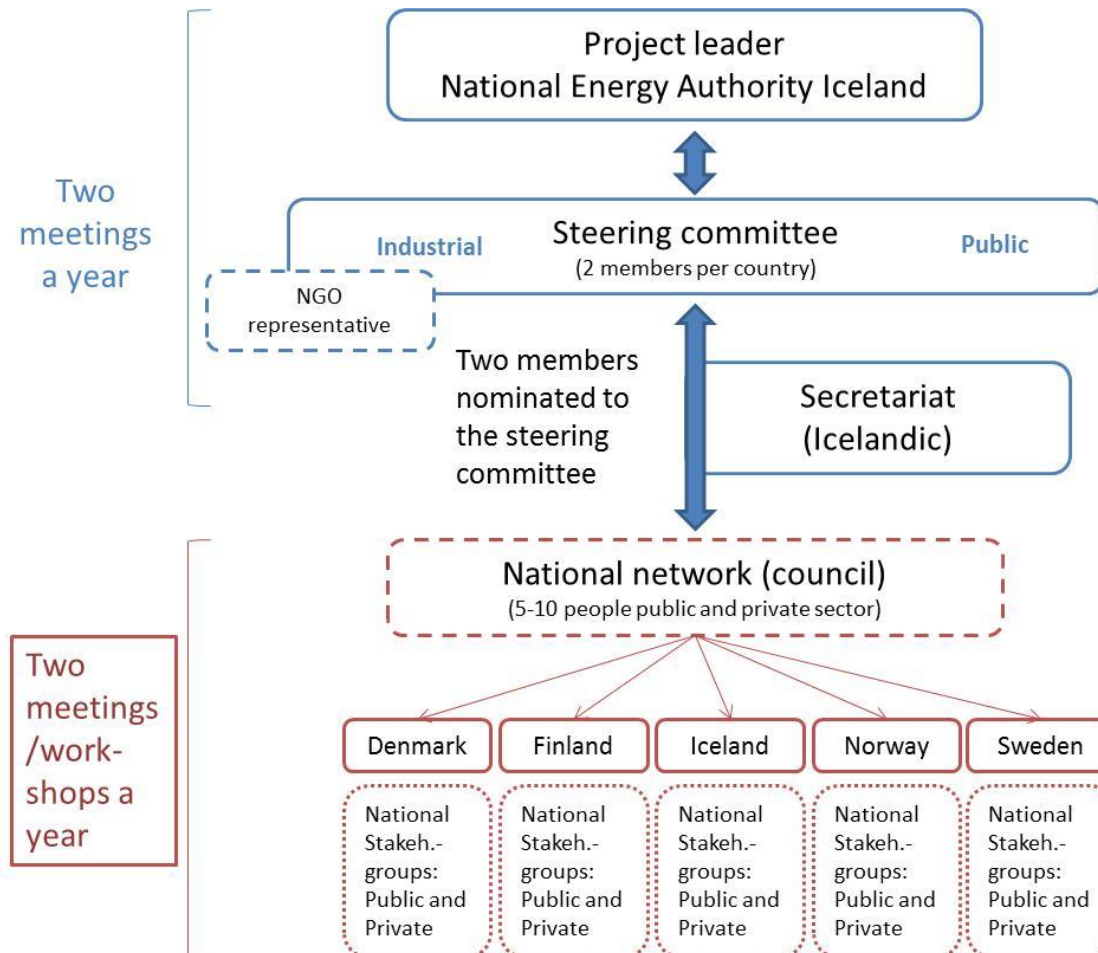


# Mobilise the stakeholders

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- Industry is already searching for solutions
  - Increased oil prices
  - Seeking increased efficiency – reduce waste
  - Adoption of technical developments from land transport
    - Fuels, specifically biofuels
- Cooperation/networking has proven successful in land transport
  - Government policies
  - Joint projects, joint ownership of solutions
- Already the Nordic countries are leaders in adopting „green“ vehicles. MARINA will contribute towards the same in marine activities.

# Organisation



## Action list

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| <ol style="list-style-type: none"><li>1. Form a platform for national networks in the Nordic countries.<ol style="list-style-type: none"><li>a. The network should consist of public/private stakeholders with the goal to reduce fossil fuel consumption in marine applications. Support government/Nordic policy formulation for action to support the goal.</li></ol></li></ol> | <ol style="list-style-type: none"><li>1. Komið og gekk vonum framar.<ol style="list-style-type: none"><li>a. Í Nordic Marina eru fulltrúar allra landanna fimm, en ekki (enn) tveir frá hverju landi.</li></ol></li></ol> |
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## Action list

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2. The national network nominates two steering committee members to the MARINA steering committee (public/private)
3. First steering committee meeting before May 1<sup>st</sup> 2014.
3. Fyrsti fundurinn var í júní 2014.

## Action list

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| <p>4. Two national meetings/workshops annually to collect stakeholders feedback.</p> <ul style="list-style-type: none"><li>• Which key topics need to be addressed</li><li>• Ongoing projects</li><li>• Possible international cooperation</li></ul> <p>5. National think tanks in spring 2015 in each country</p> | <p>4. Þetta er misjafnt eftir löndum, hvert land er mjög sjálfstætt innan Nordic Marina!</p> <p>5. Fyrsti think-tank fundurinn hefur þegar verið haldinn, er verið að undirbúa þá næstu</p> |
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## Action list

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6. General conference  
introducing findings  
autumn 2016

One outcome might be:  
"Roadmap recommendations  
for emission reduction and  
environmentally friendly  
marine fuels 2025/2050"

Marina should, at the end of  
the project, continue on and  
become self sufficient in  
funding.

Kynningarbæklingur

Ráðstefna í Danmörku

Yfirlit yfir helstu verkefni sem  
lúta að vistvænum  
samgöngum á sjó

Hvað hindrar innleiðingu  
vistvæns eldsneytis á sjó?

Verkefni í bígerð og  
"auðveldun" verkefna ...

# Activities; CO<sub>2</sub> savings in the Nordic countries



- The Nordic maritime industry is very large and there are >20 projects ongoing regarding CO<sub>2</sub> savings in the Nordic countries

- Examples:

## **Of alternative fuel projects:**

*Stenalines*: Methanol powered ferry (SE)

*Scandlines*: Diesel-electric ferry including large battery pack (DK)

*Northsailing*: Whalewatching sailboat regenerative hybrid electric battery propulsion (IS)

*Norled*: 100% battery electric ferry (NO)

*A more detailed list of projects aiming to reduce CO<sub>2</sub> footprint can be found at [www.nordicmarina.com](http://www.nordicmarina.com)*

# Key initiatives

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- A think-tank “workshop” was hosted in Akureyri 2014
  - The goal is to get feedback from the industry regarding needed activities, projects, funding, etc.
- A similar workshop is planned for Finland and Sweden in 2015
- A workshop was supported in Denmark in 2014 where industry could present ongoing environmental projects.
- A fact sheet has been completed and is available at the web site and a small brochure has been made with the goal to increase awareness

# Heimasíða

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[www.nordicmarina.com](http://www.nordicmarina.com)