

# Nordic Marina

## Nordic platforms and project creation

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# What is Nordic Marina?

- A network of key players joining forces to facilitate the introduction of alternative fuels and other green marine applications
- Promotion of innovation in marine applications, the green economy and regional development

# Overall objective of Marina

- To propose means by which to reduce fossil fuel consumption in marine vessels by:
  - Creating and maintaining a common Nordic platform for all stakeholders
  - Mapping possibilities and challenges in green energy in the marine environment

# What does Nordic Marina do?

- Sponsor workshops or stakeholder meetings in the Nordic countries
- Facilitate Nordic conferences
  - Making Marine Applications Greener, October 2015
- Advice on Nordic funding opportunities
- Roadmap recommendations to Nordic council of ministers and national bodies
  - Policy measures
  - Potential projects and achievements

# Electrification: barriers and opportunities

A few commonly mentioned barriers:

- Limited government contribution
- High initial cost of electrification of vessels compared to ICE engines
- Lack of experience, research and development

Some suggested solutions – a wish list of sorts:

- Clear standards
- Regulations for marine emissions are important drivers
- High profile demonstration projects
- Easier access to financing



MY WISH LIST

WHY LEAVE THEM WONDERING? SHARE YOUR MOST-WANTED.

# Financing projects

## Nordic Innovation

- Specific calls, rolling deadlines
- Max 4M NOK in funding, 50% (Opal)

## Nordic Energy Research

- Specific calls, academia – next call 2018/9
- Larger grants, longer term projects (Methanol project in prep)

## Nordforsk

- Applications accepted through specific calls, academia
- Max 30M NOK



# Financing projects, continued

## Northern Periphery Programme

- Biannual calls, grants 60-65% of project cost
- Max 2M EUR

## North Atlantic Cooperation (NORA)

- 2 annual deadlines, 50%
- Max 1,5 M DKK over 3 years (Opal)

## Nordic Project Fund (NOPEF)

- Conditional loans for SMEs, 3 years max



# Other programmes

- [TEN-T Connecting Europe](#) Infrastructure
- [SmartGrids European Research Area Network](#)  
(SmartGrids ERA-NET)
- [Northern European Innovative Energy Research Programme](#) (N-INNER)
- [Energy & Transport Programme](#)
- [Top-level Research Initiative: Sustainable Biofuels](#)



# My vision for 2025

- Market based mechanisms will increase the attractiveness of alternative fuels
- Significant growth in hybrid ships and electrification of service vessels and ferries, other short operation ships
- While supply infrastructure is not ready, new (liquid) fuels will be slow to become significant in marine vessels
- Batteries and hydrogen storage of energy from wind/solar

Thank you for your attention.

