



# Energy efficiency in Transport- and Fishery in sparsely populated areas in the Nordic Countries

Workshop for officials, producers and consumers,  
3–4 December 2008 in Reykjavik

Possibilities for energy efficiency in transport on roads and  
at sea – sailing and driving



NORA



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Nordisk Ministerråd



## Workshop 2008 in Reykjavik 3-4 December 2008

Energy efficiency and –economizing are main elements for behaviour changing initiatives in order to obtain more sustainability in the energy supply. For the West Nordic Countries and other sparsely populated regions and remote districts, which are dependent on import of energy, energy economizing is vital for producers, distributors and consumers. Initiatives for energy efficiency can harvest the highest profits in the sectors and sections where there is most energy consumption, either for the individual, the local community or the society as such.

Sectors with high energy consumption tend to have high emissions, because the energy sources to a large extent or as a whole are fossil fuels. For the countries in question it is moreover characteristic that fishery and fish industry are the most important occupations together with transportation at sea and by air. That is why it is obvious to focus on energy efficiency in fishery and transportation.

The Nordic energy working group for sparsely populated areas – TBO – and NORA organize this workshop that will make out the situation for the sparsely populated areas and their ability to set up objectives and goals for energy efficiency in the fisheries and the transport sectors. The workshop will also create an overview on means and methods for the sparsely populated areas in order to fulfil the visions.

And the workshop will encourage more visions and strategies on the topic. The workshop provides an innovative frame for the meeting between producers and consumers.

The workshop will provide a West Nordic perspective on a sector that has the potential for reducing harmful emissions and in doing so participate to create a more healthy climate. The workshop invites trade and industry to the event, and the results will be passed on to the actors that deal with transportation, to the shipping industry and to other parts dependent on these sectors.

Transport's share of CO<sub>2</sub> emissions is gradually increasing in all regions of the world, and both the maritime and the road based transport counts for significant shares of the total emissions. The North Atlantic and the West Nordic Countries are heavily dependent of fishery and transportation, and the sector uses fossil fuels at the moment. As the regions are also very vulnerable to climate changes, they all have an obligation to participate in reducing the pollution by acting friendly and healthy with the environment.

This invitation contains a provisional programme for the workshop. The final programme will be delivered before the beginning of the workshop.

**Register the workshop in Reykjavik before the 31st October 2008 to:**

**Margrethe Sorensen [margrethe@greennet.gl](mailto:margrethe@greennet.gl).**



## About NORA

NORA is an intergovernmental agency financed by the Nordic Council of Ministers. Its activities are supplemented by grants from within the various collaborating regions: the Faroe Islands, Greenland, Iceland and the west coast of Norway. Operating under the aegis of the Nordic Council framework, which fosters Nordic goals and values both regionally and internationally, NORA is afforded a unique opportunity to stimulate and facilitate transnational collaboration via a project-based platform.

The NORA steering committee is comprised of three members from each of the four collaborating regions. The committee determines the main focus for NORA activities, which are set out in multiple-year strategic programs. The main secretariat for NORA is located in Tórshavn, the capital of the Faroe Islands.

Regional secretariats are situated in Iceland, Greenland, South and West Norway, as well as Northern Norway.

## Mission

NORA shall contribute to strengthening the ongoing collaboration within the North Atlantic to enable the region to become an even more powerful part of the Nordic region, characterized by strong, sustainable economic development. This process shall occur by strengthening the collaboration among the business community, the research organizations and the development agencies throughout the region.

The missions of NORA are:

- To create the political and professional framework wherein North Atlantic issues can be addressed and strategic, joint initiatives developed
- To facilitate and implement project collaboration.
- To work toward development that is consistent with the Nordic principles of sustainability.
- To develop NORA as an attractive platform for enhanced Nordic collaboration with the region's neighboring countries.

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### About the Nordic Working Group for Sparsely Populated regions – TBO

The Nordic energy cooperation contribute to the developing of technologies and means for securing a sustainable energy system in those parts of the Nordic Countries that do not have a connection to the transmission lines or a weak grid connection; so that the situation is stand-alone solutions or import of energy.

The Nordic Co-operation is one of the oldest and most encompassing regional co-operative groups in the world. It includes Denmark, Finland, Iceland, Norway and Sweden as well as the Faroes Islands, Greenland and the Åland Islands. Co-operation strengthens solidarity among the Nordic countries while respecting national differences and similarities. It increases the opportunities for speaking the Nordic region's interests internationally and to promote neighbourliness.

The working group for energy supply in sparsely populated areas in the Nordic Region – TBO - refers to the Nordic Committee of Senior Officials for Energy Policy under The Nordic Council of Ministers for Energy.

Sparsely populated areas are characterized by having only a weak or none at all connexion with a national grid or transmission network.

TBO focuses on suitable solutions for decentralized energy supply, which can reduce the use of fossil fuels. Local renewable energy sources are the key issues, and maybe hydrogen may be one of the energy carriers of the future.

Energy efficiency and the use of cleaner energy sources are important topics in order to reduce the vulnerability in energy supply of remote communities and outlying districts.

TBO's mandate is to establish contacts and relations aiming to exchange information and experiences. This might later result in more joint policy making in the West Nordic Region and the North Atlantic Area.



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## Key issues

- Alternative energy sources and carriers of energy
- Ecodriving and ecosailing
- Energy management
- Fiscal policy
- Fuel economy regulation
- Fuel efficiency
- Demand management
- Greenhouse gas emissions
- Propulsion technologies
- Security of energy supply
- User pricing

## Key definitions

The infrastructure in the North Atlantic Countries provide mainly transport in vehicles and transport and fishing at sea between harbours. Transport by train is not available and air transport will not be part of this workshop. The workshop chooses the energy efficiency theme for:

- Vehicles and ships for passenger- and freight transport, and
- Ships and vessels for fishery and processing the catch at sea

## Objectives for the workshop: Energy Efficiency in transport and fishery 2008

Is the Transport sector's dependency of fossil fuels inevitable in sparsely populated coastal and island regions?

How far is new technology achieving fuel efficiency?

How big are the benefits by changing behaviour in driving and sailing?

Where can political visions create better fuel economy both on land and at sea?

## Expected results of the workshop: Energy efficiency in transport and fishery 2008

The presentations will be discussed during the workshop, which will publish the material.

The documents and data will hopefully provide elements for and result in a mini-white-book useful for the Nordic Energy Policy.



## Programme

The presenters are asked to put forward 3-5 questions about the topic  
The questions are discussed in plenary and finishes each lecture

### Wednesday 3 December 2008

09.30 – 10.30 Coffee and registration

10.30 – 10.45 Welcome to the workshop!

Opening Speech by a West Nordic Minister of Energy (not confirmed)

The chairman of TBO, Rasmus Sembach Olsen, Environment Agency, The Home Rule Government of Greenland

10.45 – 11.15 Opening speech: Driving and navigating in sparsely populated regions, and apparently an inevitable dependence of fossil fuels?

CEO Björn H. Halldórsson, Metan, "The Nordic biogas network (title not confirmed)".

Finishing with 15 minutes discussion of the speech and the topic

11.15 – 12.15 Conditions for supporting energy efficiency and use of renewable energy sources for vehicles and vessels

President and CEO Jan Fredrik Meling (or the project manager), the FelloSHIP-project on navigation and fuel cells".

Director of Research Per Finden, IFE: "Plug in electricity/The Hydrogen car".

Finishing with 15 minutes discussion of the speech and the topic

**12.30 – 13.30 Lunch**

13.30 – 14.15 Alternative fuels and propulsion technologies – where are we and

what possibilities will be our immediate possibilities

CEO Jan-Allan Müller, Injector Trawldoors A/S: "Energy saving Maritime Products, - propellers, trawl doors, and deflectors for offshore seismic explorations".

Finishing with 15 minutes discussion of the speech and the topic

14.15 – 15.00 Incentives in the structure of the West Nordic Countries that can lead to choosing the best available technology

Project manager David Pointing, NordSEIL: "Incentives in the structures of the West Nordic Countries that can lead to choosing the best available technology".

Speech and discussion

**15.00 – 15.15 Coffee**

15.15 – 16.30 The West Nordic Countries strategies and policies with consequences for fuel economy in driving and navigation. How to establish an energy and climate policy that consider the transport and fishing sector satisfactory?

Bjarti Thomsen, Fiskerirannsóknarstofnan: "Energy consumption in relation to fishing methods and –technics with ideas and data from colleges worldwide".

Meinhard Eliassen, Jarðfeingji: "Energy and – Climapolicies involving the transportation sector".

Finishing with 15 minutes discussion of the speeches and the topic



## Programme

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### Thursday 4 December 2008

09.30 – 10.15 Effective and intelligent energy behaviour patterns in driving and navigation

Fleet Manager Jens Boye, Royal Arctic Line A/S: "Energy challenges for cargo at sea".

Finishing with 15 minutes discussion of the speech and the topic

**10.15 – 11.00 Coffee**

11.00 – 11.45 Influencing energy behaviour in transport and fishery – education, campaigns, marketing etc.

Professor and CEO Thorsteinn I. Sigfusson, Iceland Innovation Centre: "Icelandic transportation – aiming at 100 % renewable energy carriers".

Finishing with 15 minutes discussion of the speech and the topic

11.45 – 12.30 Control, surveillance, monitoring, and evaluation

Jón Águst Thorsteinsson, Marorka: "Titel not yet confirmed".

Sigurður I. Fridleifsson, Orkustofnun: "Self control of energy behaviour and changing patterns of consumption in the car sector"

Finishing with 15 minutes discussion of the speech and the topic

**12.30 – 13.30 Lunch**

13.30 – 15.30 Finishing discussion. New elements and innovations for the strategies of the West Nordic countries'

energy- and climate policies for driving and navigation

Is it possible to have a North Atlantic seaway with renewable and alternative energy and energy carriers – inspired by the Hydrogen highway of Norway – HyNor?

Wishes for development and research?

Strengths and weakness' in energy management and –regulations?

Do we need pilot projects – and if yes, then where?

How do we make the West Nordic Region a winner region giving substantial support to the policies for energy efficiency and fuel economizing?

End of Workshop



## Practical Information

### Time and place

The Workshop is in the halls of

Orkustofnun/National Energy Authority,  
Grensasvegur 9,  
108 Reykjavik,  
tlf +569 6000

[www.os.is](http://www.os.is).

from Wednesday December 3 at 09.30 to Thursday  
December 4 late afternoon.

### Registration

Registration for the workshop is received by the  
TBO project secretary Margrethe Sorensen at,  
[margrethe@greennet.gl](mailto:margrethe@greennet.gl).

**Please register before the 31st of October 2008.**

### Price

The workshop is free and includes coffee and  
lunch on both days.

### Transport and Accommodation

The delegates take care of transport to and from  
Reykjavik and accommodation themselves.

Prereservations have been arranged at the Grand  
Hotel, which is one of the biggest hotels not far  
from Orkustofnun.

[www.reykjavikhoteles.is/  
reykjavikhoteles/grand\\_hotel/english/](http://www.reykjavikhoteles.is/reykjavikhoteles/grand_hotel/english/)

If you book before the 20th of November 2008  
prices will be slightly better than those offered at  
the net, i.e.

Single room	10.000 Isk.
and double room	12.000 Isk.

Book directly at Johann Sigurólason,  
[johann@grand.is](mailto:johann@grand.is) and make a reference to the  
workshop of transport and fishery.

### Questions

About the workshop can be forwarded to the TBO  
project secretary Margrethe Sorensen, e-mail:

[margrethe@greennet.gl](mailto:margrethe@greennet.gl) or  
telephone +299 322824/ +299 242739.