Clean Baltic Sea Shipping
October 2010-September 2013

Part-financed by the European Union
(European Regional Development Fund)
Clean Baltic Sea Shipping
a flagship project for the EU Baltic Sea Strategy

Main objectives

• REDUCE SHIPBORNE AIR POLLUTION AT SEA, IN PORTS AND IN PORT CITIES
• REDUCE NUTRIENT INPUTS FROM SHIPS TO THE SEA TO A ZERO-LEVEL
• CREATE A JOINT STRATEGY FOR DIFFERENTIATED PORT DUES
• CREATE PILOT PROJECTS IN FULL SCALE AS BEST PRACTICE EXAMPLES
• CREATE AN INTERREALTION CONCERNING THE GOALS BETWEEN ALL STAKEHOLDERS

www.clean-baltic-sea-shipping.com
Challenges

• A joint clean shipping strategy requires intensive interrelation between all stakeholders

• The project contains both local and regional governments, ports, universities, NGOs, shipping companies, and concerns environmental and health communities

• Communication and dissemination of objectives and results are of paramount importance for this project

• The ultimate goal is a Baltic Sea free from water and air pollution
## Project Partners

### 19 Formal Partners
1. Port of Trelleborg
2. City of Trelleborg
3. Port of Stockholm
4. Port of Helsinki
5. Port of Turku
6. Norwegian Shipowners Association
7. Port of Tallinn
8. Port of Kalundborg
9. City of Hamburg
10. Port of Rostock
11. Stadtwerke Lübeck
12. Baltic Sea Forum
13. County Administrative Board of Skåne
14. Environmental Development Association (EDA)
15. Port of Klaipeda
16. University of Klaipeda
17. Klaipeda Science and Technology Park
18. Maritime Institute of Gdańsk
19. Port of Oslo

### 20 Associated Partners
1. Swedish Maritime Administration
2. German Ministry of Transport
3. State Chancellery of Schleswig-Holstein
4. Germanischer Lloyd
5. Rosmorport (Kaliningrad)
6. Vestfold County Council
7. Port of Nexø
8. World Future Council
9. E.ON Gas Sverige AS
10. Exmar BV
11. Nordic LNG AB
12. Scandlines AB
13. Baltic Ports Organisation
14. German Shipowners Association
15. TT-Line GmbH
16. Maritimt Forum
17. Baltic Subregional States Cooperation
18. Gazprom
19. City of Swinoujście
20. Port of Gdańsk

### Supporting Organisations
1. Danish Maritime Authority
2. HELCOM – Baltic Marine Environment Protection Commission
3. Council of the Baltic Sea States (CBSS)
4. German Hydrogeographic Org.
5. City of Lübeck
6. OKEANOS Foundation
7. Ministry of the Environment
8. AIDA Cruises GmbH
9. SIDA
10. City of Gdańsk
11. Ministry of Infrastructure
12. Ostsee Mineralöl – Bunker GmbH
13. Det Norske Veritas
14. Swedish Ministry of Enterprises

www.clean-baltic-sea-shipping.com
Pilot Projects

1. Elaboration of how Bio-LNG logistics can be organised from a biogas plant to ships at berths (Port of Trelleborg)

2. Elaboration of how local small scale LNG logistics can be derived from a large LNG import terminal (Port of Klaipeda)

3. Development of OPS and LNG - supply solutions for large cruise ships and ferries (Port of Rostock)

4. Development of an Environmental Port Index (Port of Stockholm)

5. Elaboration of how OPS for large sized ferries could be established (Port of Oslo)
Strategies and supporting studies

1. Baseline calculation for emissions in partner ports

2. Study regarding demand for environmentally related infrastructure in ports

3. Study on the availability of electricity and gas/LNG

4. Study regarding developments in the bunker, electricity and LNG markets

5. Analysis of existing economic instruments like environmentally differentiated port dues.

www.clean-baltic-sea-shipping.com
Organisation of Workgroups

1. WG1: Environmentally differentiated port dues
   Lead: Ports of Stockholm

2. WG2: Irregular traffic – Cruisers
   Lead: Port of Trelleborg and Port of Helsinki

3. WG3: Regular traffic – Ferries and RoRo-ships
   Lead: Port of Trelleborg and Port of Helsinki

4. WG4: LNG logistics
   Lead: Klaipeda Science and Technology Park

www.clean-baltic-sea-shipping.com
Planned and Reached Achievements M4

• Pilot projects with shoreside electricity for ferries and cruisers are implemented

• Tests are being made with different new cleaner fuels such as methanol, closely followed by Cleanship

• Voluntary ferry owner-port agreements for pumping over all sewage and biological wastes when in port have been made and are utilized in a number of the partner ports

• A comprehensive Port due study is being undertaken

• Pilot project LNG. The Port of Klaipeda is planning for small scale LNG logistics to be derived from its LNG import terminal

• Several Supporting Analyses will be ready in September
Invitation to our Midterm Conference

You are most welcome to attend Clean Baltic Sea Shipping Midterm Conference

19-20 September 2012, Riga

Register at

www.clean-baltic-sea-shipping.com

News and dialogues about fuels and dual fuel ship engine conversions, and solutions which will decrease the releases of SO$_x$ and NO$_x$ gases and stop all particles from ship engine exhausts.

News and dialogues about universal solutions for shoreside electricity, and complete chains for port reception and shore treatment of ship sewages.

Invited speakers

- Mr Thomas Stenhede, The SPIRETH Project
- Mr Torbjörn Rudbergh, Maritime Research and Consultancy IHS
- Mr Kristian T Lund, Busniess Manager BLUNOX
- Ms Monica Stankiewicz, HELCOM Executive Secretay
- Mr Marco Andreola, LNG Fuelled Marine systems, Rolls-Royce
- Mr Andrievs Janis Folkmanis, European Commission Consultant
- Ms Katarzyna Chrulska, Strategy & Project Support Manger at GAZ-SYSTEM
- Mr Tapani Stipa, Project Leader InnoShip

CLEANSHIP project reports

www.clean-baltic-sea-shipping.com
Ongoing changes and future of the Port of Trelleborg
The gateway between Scandinavia and Continental Europe
The gateway between Scandinavia and Continental Europe
Thanks for your attention