Meeting in Copenhagen October 4

“LNG in Baltic Sea Ports"- Present Status

Per Olof Jansson – Project Leader, Chairman of the Steering Group

LNG in Baltic Sea Ports

HELSINGBORGS HAMN PORT OF HELSINGBORG

AARHUS HAVN PORT OF AARHUS

CMP COPENHAGEN MALMÖ PORT

PORT OF HELSINKI

SJH

PORT OF TALLINN The Port of Good News

PORT OF TURKU FINLAND

7 ports around the Baltic Sea plus supporting ports; supported by ESPO and man industry organizations (ship-owners, national ports organizations,)

- Focus on pre-investment studies such as environmental impact assessments, feasibility analyses for LNG terminals or bunkering vessels, project designs, regional market studies, safety manuals, etc.
- Project works include a so-called 'stakeholder platform' which will facilitate a discussion among various actors, such as port authorities, shipowners, gas infrastructure providers, energy traders and bunkering companies.
- Project Budget - Around 4 mln. Euro;
  Jan. 2012 – Dec. 2014

Co-financed by the European Union
Trans-European Transport Network (TEN-T)

Objectives:

Development of the infrastructure in the ports for LNG bunkering, thus making possible to use LNG as fuel for the shipping industry in the future. This will decrease the emission to the atmosphere and make sea transport more environmentally friendly.

The project will result in jointly developed operational ships bunkering installations in ports that can serve as objects of reference to other ports in the Baltic Sea region and to other regions in EU.

The wider benefits of the project are to:

Foster innovation and deployment of necessary infrastructure for LNG bunkering facilities and to increase faster implementation of new technical developments in the maritime sector of the Baltic Sea Region;

Contribute to the promotion of efficient, safe and environmentally sound maritime transport in the Baltic Sea by creating a harmonised infrastructure for bunkering LNG in the Baltic Sea region (based on on-going LNG feasibility study led by the Danish Maritime Administration)

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Activities – planned and achieved so far:

"At the port level, the project in general is progressing satisfactorily and according to plan, and the full involvement of the seven participating ports is obvious and visible." …

"However, in order to achieve a basic level of LNG bunkering infrastructure availability in the region and provide adequate LNG capacity for ships, the involved ports need to collaborate on the planning processes and standardisation."…

…"Last, but not least, there is an expectation that the Results of the LNG project will be widely disseminated and shared with the industry – including to those stakeholders who are not involved in the project"…

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Activities – planned and achieved so far:

- Apart from workshop/seminars two conferences are foreseen to be organised.

  - ✓ The 'opening' LNG conference had been organised on 5th March 2013 in Gdańsk.

  - ✓ The conference was under the Partnership of the *"LNG in Baltic Sea Ports Project".*

  - ✓ Event was on the topic of : *LNG in Europe and Baltic – market and investment opportunities*. Conference was widely attended by various LNG stakeholders.

Activities – progress overview :

- Activity 1. LNG in Aarhus:
  - ✓ The LNG study in Aarhus undertaken by SSPA Sweden AB has been commenced in November 2012.
  - ✓ The Feasibility Study has started – collection of data, background information and statistics on ship traffic. Study is about to be finalized.
  - ✓ The second Sub—activity, the EIA process, has been started by holding meetings with representatives from relevant authorities, and by undertaking risk analysis and EIA preparations.
- Activity 2. LNG in CMP:
  - ✓ Sub-activity 1: completed - Gathering data related to shipping activities within the area; ship types; shipping routes within SECA Estimating future bunker volumes within the area.
  - ✓ Sub-activity 2: completed - Localisation study including preferred location and layout of the terminal.
  - ✓ Sub-activity 3: Cost and market analysis study including operational costs and investment cost – on going.

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Activities – progress overview :

- Activity 3. LNG in Helsingborg:

  Following work has been performed:

  - ✓ A market analysis regarding what kind of proposal is necessary to present to the ship owners in the market area of Helsingborg, what needed to make initial commitments regarding LNG volumes
  - ✓ An initial localisation process. Meetings with authorities responsible/ important for the permitting process ("länsstyrelsen", transportsstyrelsen, fire department, environmental department, planning department).
  - ✓ Continuous contacts with important stakeholders (authorities, ship owners, other ports, suppliers, bunker companies, e t c).
  - ✓ A basic design was performed so an investment cost calculation could be done and risk assessment.

- Activity 4. LNG in Helsinki:

  - ✓ Feasibility study is completed as planned and will be updated if necessary.

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Activities – progress overview :

- Activity 5. LNG in Stockholm:

  - ✓ Work proceeds according to schedule on a feasibility study covering future bunkering possibilities in all parts of the port as well as a safety manual will be presented by end of August.
  - ✓ Viking Grace arrived for the first time in Stockholm on her maiden voyage on January 14th.
  - ✓ As part of Activity 5, Ports of Stockholm hosted the first part of a two-day conference arranged by the Make a Difference-project.
  - ✓ In order to spread information and knowledge, a brochure in Swedish and English about the handling and bunkering of LNG in Ports of Stockholm has been produced.

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Activities – progress overview :

- Activity 6. LNG in Tallinn:

  - ✓ Act 6.1- Port of Tallinn opened tender for Feasibility Study- tender was granted to “Pöyry”. Preparations for tender needed more time due to the input from sector stakeholders and insecurity because of decisions of the regional LNG terminal were delayed. The analysis report was accepted by Port of Tallinn on 17.06.2013.
  - ✓ Act 6.2 General Plan and Detailed Plan tender documents are being prepared in cooperation with the local authority. Tender for General Plan, Detailed Plan and EIA reports will started on 12.07.2013.
  - ✓ Act 6.3 Environmental Impact Assessment reports – tender documents are being prepared in cooperation with the local authority, tender is to start March 2013.
  - ✓ Tender for General Plan, Detailed Plan and EIA reports will be started on 12.07.2013.
  - ✓ Acts 6.4, 6.5, 6.6 preparations proceeding according to the schedule.

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Activities – progress overview :

- Activity 7. LNG in Turku:
  - ✓ 1. LNG bunkering arrangements in the harbour area:
    Discussed with relevant stakeholders about bunkering possibilities of LNG with trucks in port areas. Preliminary results should be ready at the end of August 2013 and final report at the end of 2013.
  - ✓ 2. Plans and studies related to Pansio LNG import terminal:
    The proposal of local detailed plan for Pansio LNG terminal area was accepted in June 2013 by the Board of Environment and City Planning. The operator (Gasum) has started detailed technical planning of LNG terminal. The Port of Turku will start the planning of the area around LNG terminal during autumn 2013.
  - ✓ 3. Safety manual for bunkering and use of LNG in port areas Draft of Safety manual is ready and it has been sent for comments to regional rescue services. Safety manual will be finalised during autumn 2013.

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Thank you

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