

## General conclusions of the 8 October workshop on Onshore Power Supply in Hamburg

### 1. Introduction

On the 8<sup>th</sup> of October a group of European ports and companies gathered in Hamburg to share thoughts and ideas about setting up a toolkit for onshore power supply (OPS). The meeting was initiated by the Port of Göteborg, supported by the Clinton Climate Initiative, as a result of the C40 World Ports Climate Conference of July 2008 in Rotterdam. These ports agreed to work together in exploring ways to stimulate the implementation of onshore power supply as a means to improve local air quality and reduce greenhouse gas emissions.

The conclusions of the meeting, as drawn by the group at the end of the day, are outlined below.

### 2. Goal of the toolkit

In the invitation for the 8 October session the following goal of the workshop was mentioned:

*"To come to concrete actions and perspectives regarding developing a toolkit for ports for shore power implementation."*

Based on the workshop we can now specify that the toolkit should be an aid for decision makers who face the question on if and how to implement shore power projects. The toolkit should help decision makers with answering the following main questions:

1. Is OPS the right measure to implement for reducing local air pollution and greenhouse gas emissions or could we better look at other measures?
2. If OPS is the chosen solution: how are we going to design and start up the execution process?
3. How do we maximize the climate benefits?

### 3. Key items of the toolkit

In order to be able to answer the three main questions, the toolkit should at least contain the following items (this can be further specified in the next discussion):

- A checklist for decision making including clear explanation and guidance for go/no go moments
- A format for a quick scan and business case analysis (containing investment and operational costs and economic as well as social and environmental benefits)
- Scenario planning
- Guidance on how to maximize emissions reduction
- Benchmarking including comparison with other measures (to a certain extent)

### 4. Target group

The toolkit should take into account how to manage the process with the different possible stakeholders and their roles, opinions and interests. We identified three target groups as users of the toolkit:

- Port authority and /or terminal operator
- The authorized local authority (could be city, state and/or province)
- Ship owner

## **5. The scope**

The toolkit should in stage 1 target three ship categories:

1. Ferry and RoRo
2. Cruise
3. Container

Specific requirements for the toolkit from the categories dry bulk carriers and tankers could be added later. At the moment the necessity of that is not obvious yet.

The toolkit should give guidance to situations in which the power frequency is 50 Hz and in situations with 60 Hz in all combinations ship – shore.

## **6. The next steps**

- Altran provides notes of the session
- The next session in Göteborg 13 and 14 Nov
  - Seminar ABB + site visit + work group session
  - Discuss plan of approach offered by Altran
- CCI + Göteborg present at IAPH in Los Angeles
- Decide on execution (how/who)
- Execution
- Everybody advocates
- Share documents through site Port of Göteborg.

## **7. Final remarks**

Through this workshop we shared information, knowledge, innovative solutions, questions, ambitions and experience in realised projects. If we look back at this workshop in Hamburg we can conclude that there are opportunities, challenges, and questions that need to be addressed before we can take the next step in promoting implementation of OPS on a global level. We can conclude that the biggest challenge is the interface management (technical/ interests/legislation) and the organisation of the complete supply chain so that we can get a clear view on costs and benefits. The OPS toolkit should help elaborate these crucial elements.

In the next workshop we will focus on taking the next steps to realize a shore power toolkit by defining the main toolkit specifications. In half a day and an interactive program we like to share more information, make flow charts and set all the parameters for the OPS toolkit with each other.

We would like to thank you all for attending the workshop in Hamburg and off course for all the input you gave that day. We hope to see you all in Göteborg the 13<sup>th</sup> and 14<sup>th</sup> of November 2008.

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