

Multi-year Expert Meeting  
On Transport and Trade Facilitation:

**Maritime Transport and  
the Climate Change Challenge**

16-18 February 2009

**Climate Initiatives of the World's Ports**

Presentation by

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“Maritime Transport & Climate Change Challenge”  
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## Climate Initiatives of the World’s Ports

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Secretary General

International Association of Ports & Harbors (IAPH)

## Greening the world’s ports

- Ports play indispensable roles in maritime trade and global supply chain.
- Imperative to operate in good harmony with natural environment; water, land and air.
- IAPH is proactively promoting the greening of world’s ports.



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## Recent developments on Climate Initiatives of IAPH

- 2006 Apr: IAPH position paper on AMP adopted
- 2007 May: Houston resolution on port clean air programs adopted
- 2008 Mar: IAPH Tool Box for Port Clean Air Programs launched
- 2008 Apr: Dunkirk resolution on port climate action adopted
- 2008 July: World Ports Climate Conference held in Rotterdam
- 2008 Nov: World Ports Climate Initiative launched

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## IAPH Tool Box for Port Clean Air Programs

- Web-based planning guide for port clean air programs
- No one-size-fits-all approach
- Measures for each of major emission sources
- Tools readily available, including application cases and pros/cons



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## On-Shore Power Supply

- Ship emission controls by MARPOL Annex VI entering in force in May 2005 and revised in 2008.
- Shut down ship engines completely while at berth
- On-Shore Power Supply, Alternate Maritime Power (AMP), cold-ironing
- IEC & ISO technical standard for HVSC



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## World Ports Climate Declaration

- Commitment to reduce CO<sub>2</sub> emissions and improve air quality of ports
- Measures suggested for specific target areas:
  - ◆ CO<sub>2</sub> emissions from ocean-going vessels
  - ◆ CO<sub>2</sub> emissions from port operations & development
  - ◆ CO<sub>2</sub> emissions from hinterland transport
  - ◆ Use of renewable energy
  - ◆ Carbon footprint
  - ◆ Implementation

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## Measures being taken to reduce CO<sub>2</sub> emissions at ports

- Reducing ship speed when entering port
- Using cleaner fuels for ship
- AMPing to shut down ship engines while at berth
- Using low emission or electric yard equipment
- Using cleaner trucks
- Automating terminal gates
- Modal shifting from road to sea, river and rail



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## World Ports Climate Initiative

- Global platform for port climate actions launched by IAPH in November 2008
- Raise awareness, initiate studies & actions, share best practices & information
- Projects in progress
  - ◆ Environmental Ship Index (ESI)
  - ◆ Carbon footprinting
  - ◆ IAPH Tool Box Ver.2
  - ◆ Low emission yard equipment



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## Port Climate Action =Integrated approach=

- Not single-source oriented
- Inventory emissions of all port-related activities
- Develop most effective program with best tool mix
- Involve all stakeholders
- Set up targets of climate action
- Make public progress and achievements

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## Port Climate Action =Sustainable approach=

- Take immediate action but with long-term approach
- Build in a mechanism for self-development
- Rather than penalties, bring benefits to participants of climate initiatives
- Design measures in a business-oriented way



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## Port Climate Action

### =Innovative approach=

- Introduce new incentives such as tariff discount, priority lanes, etc.
- Promote new technology development through joint-project, offering testing sites, etc.
- Linking together climate measures to be more effective & beneficial



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## Let us work together

*26<sup>th</sup> IAPH World Ports Conference  
Genoa, Italy, 25<sup>th</sup> – 29<sup>th</sup> May 2009*

- Keynote address “Climate Change & Our World” by Prof. Davidson, IPCC WG Co-Chairman
- Special session on “Ports & Climate Change”



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