



MILJØMINISTERIET

Miljøstyrelsen

Partnership for Cleaner Shipping

Action Plan 2009-2010

March 17, 2009



Programme

- **Welcome - Thomas Knudsen, Director MAN Diesel**
- **Minister for the Environment Troels Lund Poulsen**
 - Presentation of the Action Plan for Cleaner Shipping
- **Vice-Chairman for Danish Shipowners, Lars Vang Christensen, CEO Hering Shipping**
 - Danish shipping's international role and commitment to developing standards for safety, climate and the environment
- **Thomas Knudsen, Director MAN Diesel**
 - The challenge of reducing NOx and particles from shipping
 - The technology behind MAN Diesels LowNOx valves for older ship's engines
- **Presenting the diesel engine**
- **Opportunity for questions and interviews**



Action Plan 2009-2010

- **Mapping**
 - Survey of shipping's contribution to air pollution
 - Analysis of financial incentives
- **Development of environmental technology**
 - NO_x reduction for older ship's engines with LowNO_x valves
 - SO_x reduction using scrubbing to clean exhaust gases
 - NO_x reduction with SCR catalysors
 - Development of technology for natural gas-driven ships (LNG)
 - Increase availability of low-sulphur fuel oil
 - Apply technology from other sectors
- **Legislation**
 - Danish implementation of IMO rules
 - Harmonisation of regional rules



Presentation

- **Vice-Chairman for Danish Shipowners, Lars Vang Christensen, CEO Herning Shipping**
 - Danish shipping's international role and commitment to developing standards for safety, climate and the environment
 - A tough task for the industry, needs a joint effort



Presentation

- **Thomas Knudsen, Director MAN Diesel**
 - The challenge of reducing NOx and particles from shipping
 - The technology behind MAN Diesels LowNOx valves for older ship's engines



Programme

- **Presentation of diesel engine. Thomas Knudsen, Director MAN Diesel**
- **Opportunity for questions and interviews**





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