# Japan's Efforts for Environmental Issues in International Shipping

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Estimate of CO<sub>2</sub> emission from international shipping is about 843 million tons. (3% of the global CO<sub>2</sub> emission and equal to the emission from Germany) The increase in world seaborne trade driven by the development of global economy will further lead to an increase in CO<sub>2</sub> emissions from international shipping.

## **2.** Japan's Policy to Reduce CO<sub>2</sub> Emission

#### **Basic Position**

- □ Reducing CO<sub>2</sub> emission from international shipping is vitally important
- A framework in which all countries can participate should be established, taking account of;
  - International shipping is environmentally-friendly transport mode
    - Measures which distort international shipping market should be avoided
  - Improving energy-efficiency of shipping is indispensable
- The IMO should take the lead in establishing international mechanism

#### Action

□ Proposal of a fuel-efficiency index (Energy Efficiency Design Index) to the IMO.

 $\square$  Development of energy-saving technologies to reduce CO<sub>2</sub> emission.

Contribute to accelerating discussion in the IMO. Encourage development of energy-saving technologies.

## **3. Marine Environment Initiative**



# 4. Prevention of air pollution (NOx, SOx)



# 5. Japan's Initiative for New Regulations to prevent air pollution

Development of advanced technology for air pollution prevention

R&D program for advanced technology for reduction of NOx emission from ships.

[Target] NOx reduction : 80% Fuel consumption: status quo

[Period] FY2007~FY2011 (5 years plan)

