

Interactive Simulation for Policy Makers towards GHGs Reduction in International Shipping

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Objective of the session

The aim of this workshop is to achieve an insight into how we should consider the policy in international shipping to reduce Greenhouse gas (GHG) emissions.

Summary of the activities

The workshop is planned to use an interactive simulator of maritime container ship transportation in order to evaluate the policy. In the workshop, participants play a role of regulator, manipulating a web application of the interactive simulator. Several participants can run the simulation simultaneously with the application, so this workshop does not need an exact number of participants. The introduction of alternative-fueled vessels, such as LNG-fueled vessels and ammonia-fueled vessels, is technically feasible and effective in reducing GHG emissions, although quite expensive. In addition, how and which vessels should be introduced to achieve a reduction goal of GHG emissions set by the International Maritime Organization (IMO) are still under discussion. Through the workshop, where the participants struggle to make decisions on the introduction policy, they can achieve deep insight into how the shipping company interacts with each other towards GHG reduction goals.

Expected outcomes

Simulation results which include the process of exploring better policies by the participants

Target audiences

All participants are welcome. Those who work in the maritime industry will enjoy the workshop more.

Requirements

Participants are encouraged to bring your notebook computers.

TE2023 Related Topics

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