

Air Emissions from Shipping

EMSA

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International Chamber of Shipping & European Community Shipowners' Association

Developing the consensus ..
.... extensive discussion ...
...representing >70% or world tonnage



Factors

- Political pressures:
 - Review MARPOL Annex VI
 - Public health pressure to reduce emissions
 - Kyoto problems
 - EU CO₂ reduction Communication
 - Global warming



Facts

- 90% world trade vs 1.75% GHG emissions
- Global economic benefit of shipping
- Trend is for larger, more efficient ships
- Perception that number of ships will increase over time



Unknowns

- Predicted growth rate of the world fleet
- Actual emissions from ships
- Cost of fuel under more stringent emission limits
- Concerns about availability of specific fuel types
- Main engine abatement equipment
- Practicality of economic incentives



ICS Strategy Group

- Complex issue
 - Emerging proposals
- Strategy for long term
 - Composition – industry cross section
 - Think tank
- Looking beyond Annex VI



Outcome – ICS/ECSA Proposal

- New goal-based approach
- Holistic approach
 - Draw IMO CO₂/GHG & Annex VI work together
- Create a legislative environment that stimulates innovation
- Give the shipowner choice in compliance mechanisms
 - not opposed to any single solution
- Take the quickest practicable route



ICS/ECSA Proposal (2)

- SO_x –
 - Recognise that more SECA applications are inevitable
 - Accept 1% in all SECAs
 - Require environmental & economic assessment of global cap reduction
 - But ...recognise that there may be a call for a lowering of the global cap



ICS/ECSCA Proposal (3)

- NO_x:
 - New engines (from 2012) to emit less NO_x (20%?) through in-engine methods
 - Concern with proposed 2nd tranche of reductions through bolt-on methods from 2015
 - Fear impact on engine efficiency
 - Resist measures for existing engines
 - Certification
 - Not possible in all engines



ICS/ECSCA Proposal (4)

- VOC
 - Endorse Intertanko VOCON procedure for adoption by IMO
 - Encourage innovative loading procedures
 - Require terminals to be equipped to receive vapour return
 - Require full assessment of impact of any new limit on Reid Vapour Pressure of cargo



ICS/ECSA Proposal (5)

- Particulate Matter
 - Recognise adverse local health effects
 - Encourage academic/scientific assessment of PM emissions from ships
 - Respond to emerging requirement to reduce PM through technology or fuel



Reduce air emissions from shipping
in the shortest possible timeframe



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