

Environmental ship indexes: a tool to reduce pollution in ports?

Eelco Leemans - North Sea Foundation



background



from mariner to advocate for the marine environment: one footstep







1998	initiator ProSea	Marine A	Awareness course

2001-2010 International campaign on Sustainable Shipping

2003-2009 co-ordinator FOEI Maritime Campaign

2006 co-founder NGO Shipbreaking Platform

2006 co-founder industry/NGO Platform on ship emissions

2007-08 member of IMO Expert group on Marpol Annex VI

2010 Executive Director North Sea Foundation

2010 co-founder / President Clean Shipping Coalition



North Sea

North Sea = 575.000 km2, 1,5 times Netherlands land area Economic importance and usage increases

- 260.000 ship movements
- 96 windturbines Dutch coast
- 982 oil- and gas platforms (143 in NL)
- high intensity of (bottom trawling) fisheries
- 450 pieces of marine litter per 100 meter beach

North Sea Foundation

- Sustainable fisheries (VISwijzer, Award 2010)
- Clean Shipping (Sustainable Shipping Award 2010)
- Clean Seas and beaches (Award Agentschap NL 2010)
- Marine Protected Areas





Shipping and environment

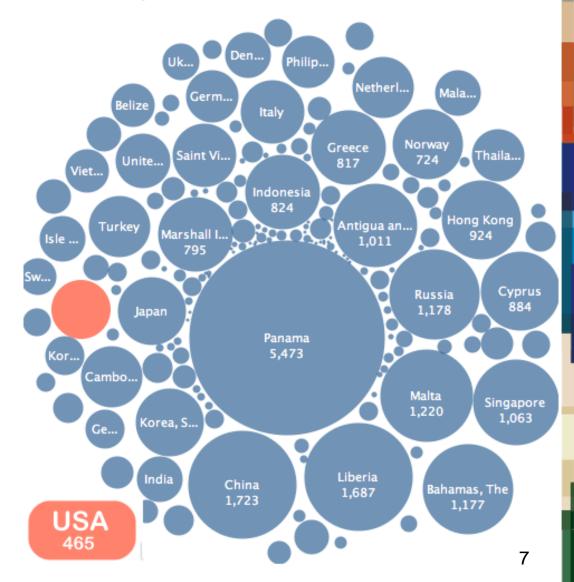
- > 90% of all trade
- EU ports: annually 3,5 billion ton, 40% internal trade by sea
- Low demands on infrastructure
- Energy efficient
- but



Ship Registry



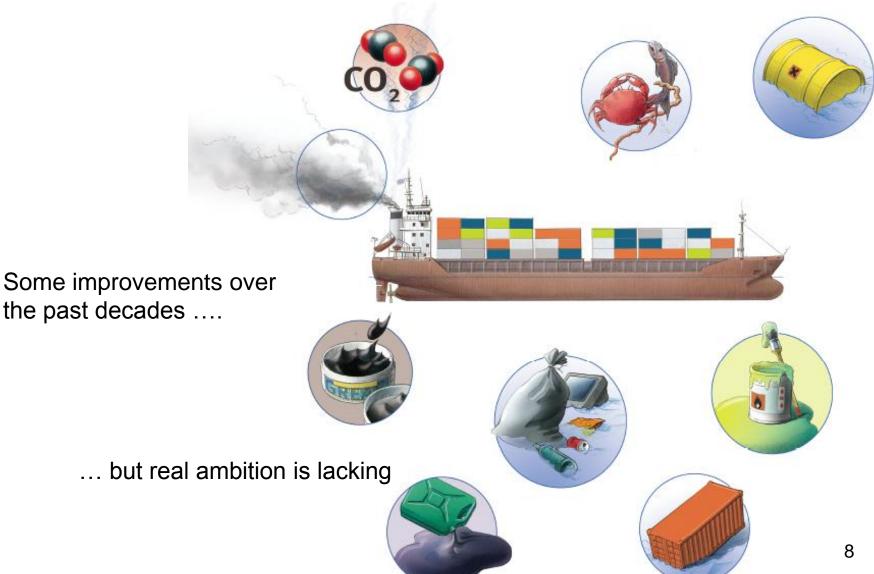
No clear connection between flag and nationality of owner



Source: CIA, 2010



Emissions from ships





End of Life





Air Pollution in ports

Ways to reduce

Marpol Annex VI (ao ECA's)

+

EU regulation

+

Local regulation

+

Incentive systems

Regulation only works with effective control and enforcement



Indexing schemes







Environmental Ship Index







- Shippingefficiency.org
- Rightship
- Blaue Engel (Germany)
- Blue Circle Award (Canada)
- Green star
- Green Marine
- Sustainable Shipping Initiative......





Sustainable Transportation





Green Award

- Certificate issued bij Green Award Foundation, Since 1994
- Holistic approach: covers environmental, safety and quality related aspects
- Rebate on port dues and other incentives
- Oil tankers, bulk carriers, LNG carriers and inland shipping.
- Certificate renewal every 3 years
- Annual office and ship audits by own personnel
- Governance: Marine industry in Committee and Board of Experts. Stakeholder workgroups.





Green Award



Requirements

2/3 is about management onshore and on vessels1/3 concerns more technical aspects

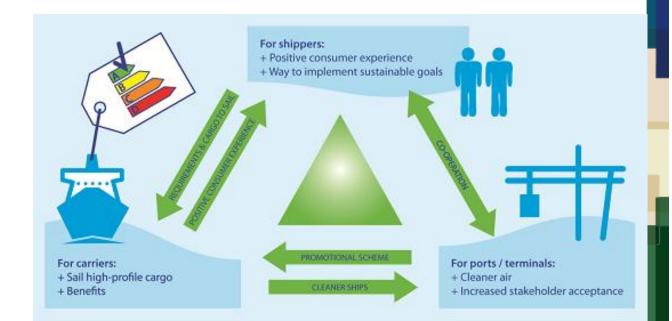
- Air emissions
- Ballast Water
- Anti-fouling
- Navigation in 'sensitive areas'
- Waste Management
- Shipbreaking





Environmental Ship Index (ESI)

- World Ports Climate Initiative (WPCI) 2009
- Aim: reduce air pollution in port areas
- Scope: SOx and NOx, points obtained for CO₂ reporting
- Reduced port fee in ports
- > 700 vessels in the program
- Audits by ports





Clean Cargo Working Group





- Business for Social Responsibility
- Working group of around 30 large shippers and carriers
- Container vessels
- CO2, NOx, SOx, chemicals and waste
- CO2 in grams of CO2/TEU*km, based on nominal values
- SO_X and CO₂ partly verified



Clean Shipping Index

- Web-based tool for cargo owners selecting environmentally acceptable shipping
- Environmental ranking system for both vessels and carriers
- Voluntary Monitoring Reporting/Verification tool for shipowners
- holistic environmental approach with both local/ regional and global focus
- Simple: Carriers answers 20 questions per vessel online



Clean Shipping Index

- Covers main types of existing ships all ages
- Goes beyond regulations
- strong economic driving force by cargo owners
- A verification of vessel/ and shipping company data by third party
- Non-profit organisation environmental development is the goal

recent cooperation / merger of Clean Shipping Index and Clean Cargo Working Group may create a strong international index system



Participating companies CSI

NILSONGROUP























Perstorp











































Further read, report:

An analysis of environmentally differentiated port fees

Comparison of 5 existing initiatives





- "EU strategy too weak"
- Several Incentive schemes
- Favourable for quality operators
- Can (and do) play an important role in bringing down air pollution in ports
- ESI only scheme specific for air emissions
- Incentives additional to regulation

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