



EU – Sulphur in Marine Fuels

Dir.93/12/EEC \Rightarrow Dir.99/32/EC \Rightarrow Dir.2005/33/EC
on Marine Fuels

- Embraces MARPOL Annex VI
 - HFO Sulphur cap 4.5%
 - Marine fuels EU MS Sulphur cap 1.5%
SECA's \Rightarrow Baltic August 2006 & North Sea 2007
 - Seagoing vessels at berth \Rightarrow 0.1% Jan. 2010



Sulphur-- Inland Vessels

- Dir 93/12
- Dir 99/32 :Gasoil 0.2% S, 0.1% (1/1/08)
- Dir 2008/xxx: 0.03%,0.001% ?

- Nox: Dir 2004/26/EC (new engines)
- smaller--1/1/07
- larger -- 1/1/09

European Dredging Association

"Clean Combustion and Greenhouse Gases" Workshop

6 November 2008



Inland Territory

- Dir. 2004/26/EC covers non-road engines including inland vessels; specifies NOx emissions for small and intermediate non-road engines.
- EC keen on shore-based power supply when in berth (“cold ironing”)
- Particulate Matter ⇒ Ports