



The EU Sulphur Directive

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Sulphur Content of Marine Fuels International Policy Framework

IMO MARPOL Annex VI

- Adopted in 1997
- To minimize airborne emissions from ships (SO_x, NO_x, ODS, VOC, CO₂)
- Annex VI entered into force in May 2005
- Revised Annex VI** with significant tighter emissions limits adopted in October 2008, entered into force in July **2010**
- 72 IMO Parties ratified Annex VI (incl. **24 EU MS**)

Sulphur Content of Marine Fuels International Policy Framework

IMO MARPOL Annex VI – 2008 amendments

□ Global sulphur content limits:

- 3,50% sulphur content from 1/1/2012
- 0,50% from after 1/1/2020 (subject to avail. Assessment)

□ SECA sulphur content limits:

- 1,00% after 1/7/2010
- 0,10% after 1/1/2015



Sulphur Content of Fuels

EU Policy Framework

The EU Sulphur Directive 1999/32/EC

- ❑ Sulphur content in heavy fuels and gas oil, including marine gas oil, regulated in the EU since early 2000
- ❑ Amended by **Directive 2005/33/EC** & **Directive 2012/33/EU** to align with the Marpol revisions (1997 and 2008 changes)
- ❑ Main objective of the revisions was bringing EU legislation in line with the Marpol revisions (1997 and 2008 changes)



Sulphur Content of Marine Fuels

EU Policy Framework

- **Directive 2005/33/EC** introduced:
 - Specific reference to marine fuels
 - **SECA requirement** in EU legislation (1,50% of S content),
 - **New EU Sulphur ECAs:** Baltic in 2006 & North Sea and Channel in 2007
 - 0,10% sulphur content for **ships at berth** and 1,50% for **passenger ships**
 - Credible **Implementation** by MS
 - Coordination with **enforcement** based on international maritime law (*Port State Control*)
 - Reference to **alternative compliance** through emission abatement technologies for ships, ...



Sulphur Content of Marine Fuels

EU Policy Framework

❑ **Directive 2012/33/EC**

- ❑ Adopted in Nov. 2012, **to be transposed by MS by June 2014**
- ❑ **1.00%** until December **2014** and **0.10%** as from January **2015** for SECAs
- ❑ **3,50%** as of June 2014 and **0,50%** as of January **2020**
- ❑ as of June 2014 marine fuel with the sulphur content which exceeds the general standard of **3,50 %** by mass should not be allowed for use in the Union, except for fuels supplied to ships using emission abatement methods operating in closed mode.
- ❑ 0,10% sulphur content for ships at berth and 1,50% for passenger ships **maintained** till 2020
- ❑ Commission shall consider the potential for reducing air pollution as part of its general air quality policy

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EU Policy Framework

❑ **Directive 2012/33/EC –Implementation**

- ❑ Stronger monitoring, effective inspection and enforcement regime to ensure proper implementation
- ❑ The S Directive empowers the Commission to adopt implementing acts concerning:
 - ❑ **Sampling** and **Analysis** strategies (frequency, methods, representative sample definition)
 - ❑ **Reporting** (content and format of the annual MS report to the Commission on fuel quality)
- ❑ **Enforcement** (effective, proportionate and dissuasive fines should at least deprive those responsible of the economic benefits derived from their infringement)

Sulphur Content of Marine Fuels

EU Policy Framework

- ❑ **Directive 2012/33/EC –Alternative compliance methods**
- ❑ Access to emission abatement methods should be facilitated (recital)
- ❑ The Commission should promote the testing and development of emission abatement methods (recital)
- ❑ Alternative compliance methods have to be:
 - ❑ Verifiable
 - ❑ Quantifiable
 - ❑ Enforceable
- ❑ The Commission shall develop appropriate measure to promote and facilitate compliance with the environmental standards of the Directive

Thank You

More Information

[http://ec.europa.eu/environment/air/review air_policy.htm](http://ec.europa.eu/environment/air/review_air_policy.htm)