



# **Rationale & mandate delegated acts on monitoring methods and rules Annexes I & II Shipping MRV Regulation**

**ESSF experts' monitoring subgroup  
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# MRV Regulation essential elements monitoring methods rules

- Imposes "per voyage", with limited exceptions, and "annual" monitoring obligations (Articles 9 and 10).
- Sets a lean approach: gives companies a choice among 4 monitoring methods (Article 8 & Annex I part B) to be documented in the Monitoring Plan.
- The Commission through delegated acts is empowered for a period of 5 years to:
  - amend (non-essential) elements of the monitoring methods and rules under Annex I and II Article 5(2) **to take into account relevant international rules and international and Europea standards**
  - refine elements of the monitoring methods in the light **of technological and scientific development**

# MRV Regulation

## Annex I: methods for monitoring CO2 emissions

### Part A - Calculation of CO2 emissions

Formula for calculations / Default values for emission factors

### Part B - Methods for determining CO2 emissions

- **BDN and regular stocktaking of fuel tanks** (periodicity, conversion from volume into mass, circumstances where this monitoring method is excluded,..)
- **Bunker fuel tank monitoring on-board** (periodicity of tank readings conversion from volume to mass,...-
- **Fuel flow meters** (periodicity, inclusion of calibration and uncertainty in the Monitoring Plan,..)
- **Direct CO2 emissions measurement** (scope, method to determine of CO2 emissions)
- Room for combination of monitoring methods to enhance accuracy (assessed by the verifier)

# MRV Regulation

## Annex II Monitoring of other relevant information

*Part A "Monitoring on a per voyage basis"*

*Sets the rules for calculation of:*

- a) Time at sea
- b) Distance travelled
- c) Transport work
- d) to g) Cargo carried for passengers, ro-ro, containers and other ships

*Part B "Monitoring on an annual basis"*

*sets the rules for calculation of average energy efficiency*

# Shipping MRV Monitoring subgroup

- Gather views on possible **amendments on monitoring methods and rules under Annex I and II** arising from relevant international standards and rules
- Gather views on possible refinements for elements and scientific and technical development (**Delegated acts**)

# Delegated act on monitoring methods and rules Annexes I & II

*Are there any amendments to be introduced in the monitoring methods and rules arising from international or European standards?*

*Are there any refinements in the current elements as defined in Annex I and II arising from scientific and technical developments ?*

**Thank you for your attention!**

