

Management of ship's waste in the Port of Antwerp

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Agenda



- 1. Port of antwerp**
- 2. Port Reception Facilities**
- 3. Fee system**
- 4. Data system**

the Port of Antwerp today



- total area: **13.057 ha**, **160 km quays**
- 2012: handling **184 million tonnes** of cargo
 - ✓ *2nd largest port in Europe*
 - ✓ *64 million tonnes bulk cargo*
 - ✓ *104 million tonnes containers*
- **15.000 calls/year seagoing vessels**
- **65.000 calls/year inland vessels**
- largest and most diversified **petrochemical cluster** in Europe
 - ✓ *2nd largest worldwide*
 - ✓ *7 of the 10 largest chemical companies have one or more production sites*



Port Reception Facilities in port of Antwerp



- **open market:** ship/agent can choose any authorized PRF operating in the port
- **PRF's authorized** by both environmental authorities and port authority
- **any facility** (fixed, floating or mobile) capable of receiving ship-generated waste or cargo residues
- **adequate** to meet the needs of the ships normally using the port, without causing undue delay
 - not only **capacity**, also **service level** and **fee** level
- in case of shortcomings or inadequacies: **report** to
 - ✓ IMO (alleged inadequacies)
 - ✓ port authority (ref. to WRH plan)
 - But no reports of any!
- ? Are there adequate PRF's in PoA for future handling of **scrubber** waste?

Fees and reimbursement for ship-generated waste: the Antwerp model



- **every vessel pays** waste fee (contribution of every ship mandatory by EU Directive).
- Fees are **reimbursed through the PRF (deducted on invoice of PRF to ship)** and are dependent on the amount of waste delivered annex I (20€/m³) – annex V (25€/m³).
- **Present system:** fee dependent on size class and type of ship (factor 1 to 6) with maximum, reimbursement dependent on the amount of annex I or annex V delivered.
- **System from 1/1/2015:** harmonised fee and reimbursement system of ports in Netherlands and Belgium.

Fee and reimbursement system

Sea going vessel



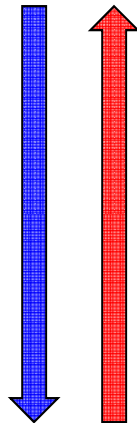
waste fee



delivery to PRF:

X ton annex I

Y ton annex V



invoice to ship:

2000 € (example)

- 250 € (to be mentioned on invoice)

= 1750 € (to be paid by ship)



Port Reception Facility

Reimbursement (= incentive to deliver):

- MARPOL Annex I: 20€ x Xm³
- MARPOL Annex V: 25€ x Ym³



Fees and reimbursement for ship-generated waste: Harmonised system (2015 onwards)



Fee		<2000 GT	>2000 GT
	Fixed base fee		
	Variable fee per GT		
	Maximum fee		
	Discount environmentally friendly ship (%)		
Reimbursement			
Annex I	Annex I – fixed		
	Annex I - var <30 m ³		
	Annex I - var >30 m ³		
Annex V	Annex V – fixed		
	Annex V - var <maximum		
	Annex V - var >maximum		
	Annex V - KGA		

Antwerp waste information and monitoring system (WASTECOL)

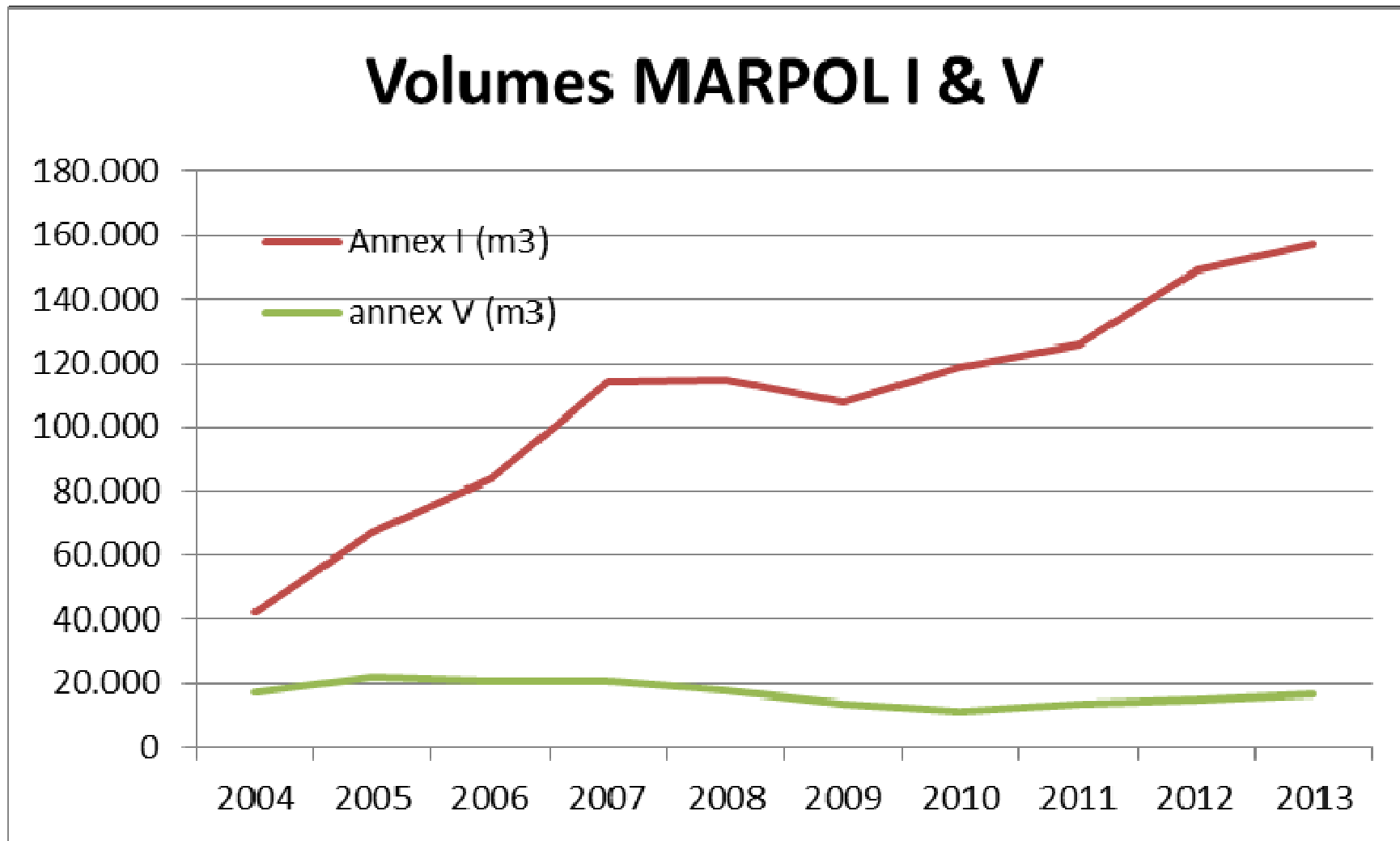


- web based system on ship-generated waste & cargo residues
- in use since August 2007
- used by PRF:
 - ✓to register delivered amounts of waste (reporting requirement!)
- used by port authority:
 - ✓to monitor & verify fees and reimbursements
 - ✓to monitor waste flows (comparison with ship's notification)
 - ✓register PRF's
 - ✓register IOPP certificates (dedicated storage capacity)
- used by Port State Control:
 - ✓to target vessels for inspection

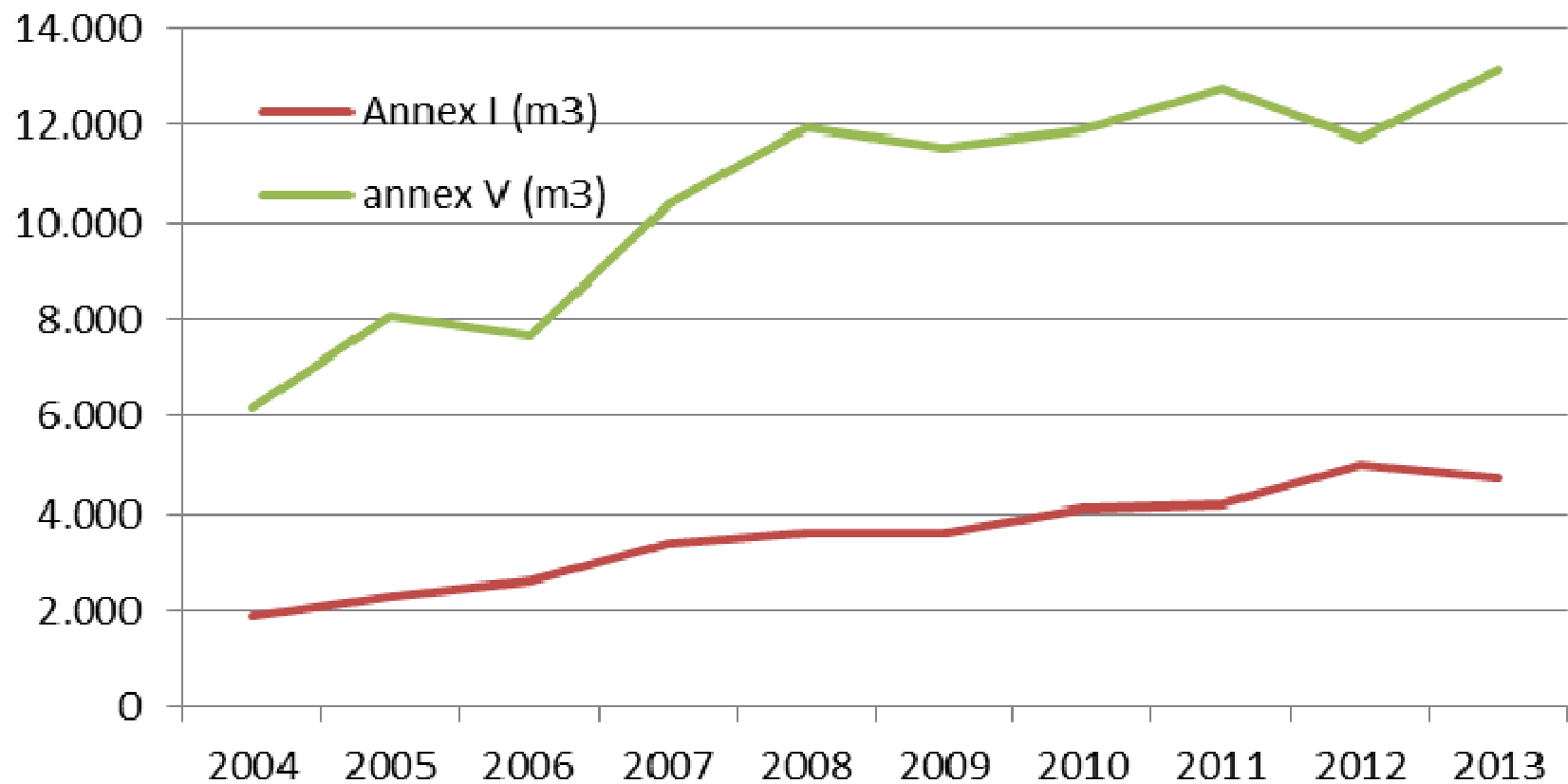
WASTECOL: advantages



- ✓ **accurate** and **detailed data** on delivery of ship generated waste
- ✓ full picture of **waste flows** from ship to PRF's
- ✓ reliable **statistics**: monitoring
- ✓ **reduced bureaucracy**
- ✓ increased **transparency**
- ✓ internet application:
= **exchange of information** between ports possible



ships that deliver MARPOL I & V



Thank you for your attention

