



# ENERGY & INDUSTRIAL SOLUTIONS

**Tractebel** Engineering  

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# The Experience of Operators with Verification Across Member States



ECCP WG on Emissions Trading - Brussels, 27 April 2007

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# OUTLINE

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1. Choice
2. Views
3. Approaches
4. Knowledge
5. Outlook



# 1. Choice

# Choice

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- Left to the responsibility of the subsidiaries in the Member States
  - Transposition of directive 2003/87/EC in national law
    - > definitions
  - Permit structure and linkage
    - > operational
    - > environment
    - > emissions
  - Monitoring requirements and documents
  - Reporting requirements and documents
  - Verification requirements
  - Verifier accreditation



## 2. Views

# Views on Verification - Basics

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- Roles
  - Monitoring and reporting requirements (permit) : CA (Art.6 Dir.03/87/EC)
  - Verification of annual emissions reports : Verifier (Art.15 Dir.03/87/EC)
- Monitoring and reporting
  - Principles (Annex IV of Dir.03/87/EC)
    - > Monitoring of CO2
    - > Calculation and Measurement
    - > Monitoring of other GHG emissions
    - > Reporting of Emissions

# Views on Verification – Basics (2)

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- MRG1 (Decision 04/156/EC) – Period 2005-2007
  - > General Guidelines (Annex I)
    - Monitoring and Reporting Principles (Annex I – §3) : Completeness – Consistency-  
Transparency – Accuracy – Cost Effectiveness - Materiality - Faithfulness – Improvement of  
performance
  - > Activity-Specific Guidelines (Annex II-XI)
  
- MRG2 (CC Committee 31 July 2006) - Period 2008-2012
  - > General Guidelines (Annex I)
    - Monitoring and Reporting Principles (Annex I – §3) : Completeness – Consistency-  
Transparency – Trueness – Cost Effectiveness- Faithfulness – Improvement of performance
  - > Activity-Specific Guidelines (Annex II-XI)
  - > Guidelines for Continuous Emissions Monitoring Systems (Annex XII)



# Views on Verification – Basics (3)

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- Verification

- Criteria: Annex V of Dir.03/87/EC

- > General Principles

- Adress the reliability, credibility and accuraracy of

- monitoring systems

- reported data and information relating to emissions

- > Methodology

- Strategic analysis

- Process analysis

- Risk analysis

- Report

- Minimum competency for the verfier

# Views on Verification – Basics (4)

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- MRG1: Annex I - § 7.4 – Verification

The Verifier shall assess

Compliance of the monitoring methodology with approved methodology by CA

Principles of M&R as defined in MRG1 Annex I §3

Guidelines of MRG1 Annex II-XI

- MRG2: Annex I - § 10.4 – Verification

> General Principles

Objective

-Ensure that emissions have been monitored in accordance with the MRG

-Reliable and correct emissions data will be reported pursuant to Art.14(3) of Dir.03/87/EC

> Methodology

Strategic analysis

Risk analysis

Verification

Reporting (internal and external)

# Views on Verification – Basics (5)

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- In some cases
  - > national verification protocols
  - > reference to verification protocols like IETA, etc.

# Views on Verification - Praxis

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- Different views about role of the verifier (Scope)
  - Monitoring methodology verification
    - > Is the applied methodology in conformity with the approved methodology ?
    - > Does the methodology what it is supposed to do ?
    - > Is internal control and verification applied ?
  - Data management system audit
  - Data and calculation verification
- Different roles of the Verifier
  - Flemish Region: monitoring protocol verified by verifier for CA



## 3. Approaches

# Approaches

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- Notification of the verification
- Execution of the verification
- Site visits
- Different points of attention
  - Non acceptance of 12.01/44.01 for carbon content in CO<sub>2</sub> (12/44)
  - Acceptance of a non-conform methodology



## 4. Knowledge

# Knowledge

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- Different interpretations of definitions
  - Definitions of major and minor sources
  - Uncertainty and materiality
- Learning process for both sites





## 4. Outlook

# Outlook (1)

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- Harmonize wording in legislation
  - Criteria, principles, etc.
- Clarify concepts
  - Uncertainty
  - Materiality
- Develop verification guidelines
  - Notification of the verification (verification plan)
  - Scope and execution of the verification
  - Verification of data versus verification of processes (people, systems)

## Outlook (2)

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- Apply common accreditation requirements
- Introduce uniform templates for
  - Emission Report
  - Verification Plan
  - Verification Report
- Match monitoring plan with verification plan
- Define best practices

Thank you ! Your questions are welcome !





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# Contact

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