

Monitoring and Reporting: the guidance material

Monique Voogt, coordinator WG ETS

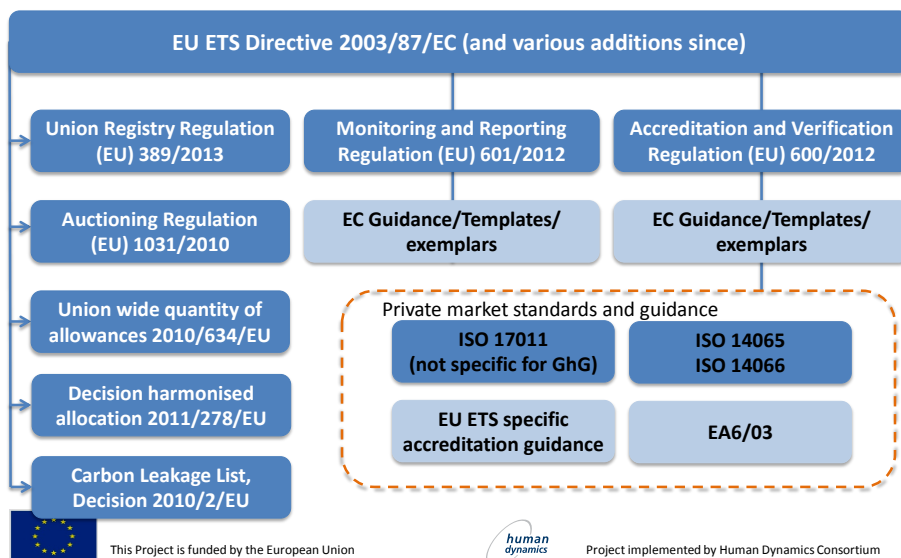


This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

The Regulatory Framework of the EU ETS



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

The Guidance Material

- Commission developed suites of guidance material
- Aimed to support harmonised implementation, achieve common understanding and application of requirements
 - Templates for the monitoring plan, emission report and verification report
 - Exemplar cases for these plans and reports for specific types of installations
 - Calculation tools, f.ex. to determine unreasonable costs
 - Guidance documents, that explain in detail what information should be provided and how that information can be obtained
 - Frequently Asked Questions (and answers)
 - Electronic data exchange formats
- All information is available at
http://ec.europa.eu/clima/policies/ets/monitoring/documentation_en.htm



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

The Guidance material

Guidance Document No and title	
1	General Guidance for installations (incl. templates and exemplar cases)
2	General Guidance for aircraft operators (incl. templates and exemplar cases)
3	Explaining biomass issues
4	Uncertainty assessment
5	Sampling and analysis (incl tool to determine frequency analysis and template for sampling plan)
6	Data flow activities and control system (incl. tool for operator risk assessment and examples)
7	Continuous emission monitoring systems



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

Template Monitoring Plan

- A. Contents**
- b. Guidelines and conditions**
- A. Monitoring Plan versions**
 - 1 List of monitoring plan versions
- B. Operator & Installation Identification**
 - 2 About the operator
 - 3 About your installation
 - 4 Contact details
- C. Installation Description**
 - 5 About the installation Activities
 - 6 About your emissions
- D. Calculation Based Approaches**
 - 7 Calculation: Details which are needed for further input in the next sheet
- E. SourceStreams**
 - 8 Details on the applied tiers for activity data and calculation factors
- F. Measurement Based Approaches**
 - 9 Measurement of CO₂ and N₂O emissions
 - 10 Details for measurement points
 - 11 Management and procedures for measurement based approaches
- G. Fall-back Approaches**
 - 12 Description of the Fall-back approach
- H. N₂O emissions**
 - 13 Management and procedures for monitoring N₂O emissions
- I. Determination of PFC emissions from production of primary aluminium**
 - 14 Determination of PFC emissions
 - 15 Monitoring details for source streams of PFC emissions
 - 16 Management and written procedures for PFC monitoring
- J. Determination of transferred or inherent CO₂**
 - 17 Determination of inherent and transferred CO₂
 - 18 Information relevant for pipeline systems used for transport of CO₂
 - 19 Information relevant for installations for the geological storage of CO₂
- K. Management & Control**
 - 20 Management
 - 21 Data flow activities
 - 22 Control activities

- XLS based
- Clickable
- Structured menu
- Explanations, further details in annexes
- Several countries have translated them in own language



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

Chapters follow MRR requirements

- A. Monitoring Plan versions
- B. Operator & Installation Identification
- C. Installation Description
- D. Calculation Based Approaches
- E. SourceStreams
- F. Measurement Based Approaches
- G. Fall-back Approaches
- H. N₂O emissions
- I. Determination of PFC emissions
- J. Determination of transferred or inherent CO₂
- K. Management & Control

[illegible]

This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

What's in the template?

C. Installation Description

5 About the Installation Activities

Please use this sheet for describing your installation. In particular, source streams will be described in more detail in sheet E. Necessary detailed inputs in the following F_MeasurementBasedApproaches.

(a) Description of the installation and its activities

Please provide here a brief outline description of the installation, and describe the location of the technical summary of the installation. The description should also include the location of the installation and the location of the activities performed by the installation.

This description should be used to provide a brief outline description of the installation. It may be used to provide a brief outline description of the installation.

Explanation what needs to be filled in here and its purpose

Detailed instruction what information is needed with reference to examples

Yellow boxes: obligatory to complete

(b) Source Stream Diagram document title and reference:

It may aid the description of activities to provide a simple diagram showing emissions sources, source streams, sampling points and metering/measurement equipment. If such a diagram is available please provide here a reference (filename, date) and attach a copy when submitting this monitoring plan to your competent authority.



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

What's in the template? -2

(c) List of activities pursued at the installation:

Please provide the following information for each activity carried out at your installation.

Please also provide the capacity of the installation.

Please note that 'capacity' in this context means:

- Rated thermal capacity of the installation (in MWth) on the 20MW threshold, which is the rate at which fuel can be burned at the maximum continuous rating of the installation.

- Production capacity for those specific activities for which production capacity determines the inclusion in the EUETS.

Please make sure that the installation boundaries are consistent in line with Annex I, Table 1 of the Commission's Guidance on Interpretation of Annex I, Table 1.

The list entered here will be used to determine the relevant sections of the monitoring plan.

For showing/hiding examples, click on the relevant sections of the monitoring plan.

Link to further information on EC website

at the installation:

ETS Directive carried out at your installation.

on the 20MW threshold, which is the rate at which fuel can be burned at the maximum continuous rating of the installation.

Production capacity for those specific activities for which production capacity determines the inclusion in the EUETS.

Please make sure that the installation boundaries are consistent in line with Annex I, Table 1 of the Commission's Guidance on Interpretation of Annex I, Table 1.

The list entered here will be used to determine the relevant sections of the monitoring plan.

For showing/hiding examples, click on the relevant sections of the monitoring plan.

Drop down menu with options to select from

Detailed guidance on exact meaning of terms

Activity Ref. (A1, A2,...)	Annex I	Total Activity Capacity	Capacity units	GHG emitted
A01	Production of coke	1500	tonnes per day	CO2
A02	Combustion of fuels	120	MW(th)	CO2
A1	Production of coke			
A2	Combustion of fuels			
	Refining of mineral oil			
	Production of coke			
	Metal ore roasting or sintering			
	Production of pig iron or steel			
	Production or processing of ferrous metals			
	Production of primary aluminium			
	Production of secondary aluminium			



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

What's in the template? -3

(d) Estimated annual emissions:

Please enter here the average annual emissions of your installation. This information is required for categorisation of the installation in accordance with Article 19 of the MRR. Use the average verified annual emissions of the previous trading period data OR if this data is not available, or is inappropriate, a conservative estimate of annual average emissions, including transferred CO₂, but excluding CO₂ from biomass.

The resulting category is used for identifying minimum tier requirements in section 8 (Source streams).

Estimated annual emissions	200.000	t CO ₂ e
Installation category in accordance with Article 19	B	

Automatically
determined results

(e) Installation with low emissions?

Entering "TRUE" here means that the installation satisfies the criteria for installations with low emissions as defined by

According to that Article, the operator may submit a simplified monitoring plan for an installation where no nitrous oxide emissions are emitted or where it is demonstrated that:

- the average verified annual emissions of the installation in the previous trading period were less than 25 000 tonnes CO₂(e) per year, or
- a conservative estimate of annual average emissions of the installation is less than 25 000 tonnes CO₂(e) per year, where the verified emissions are not available or inappropriate.

Note: the above data shall include transferred CO₂.

If your selection here contradicts the

If your installation is an installation

Questions/boxes that
become irrelevant are
automatically marked grey

(f) Justification for estimation value

If your input regarding being an installation with low emissions contradicts your entry in point (d), or if that figure is not based on verified emissions, but on a conservative estimate, please give a short justification below.



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium