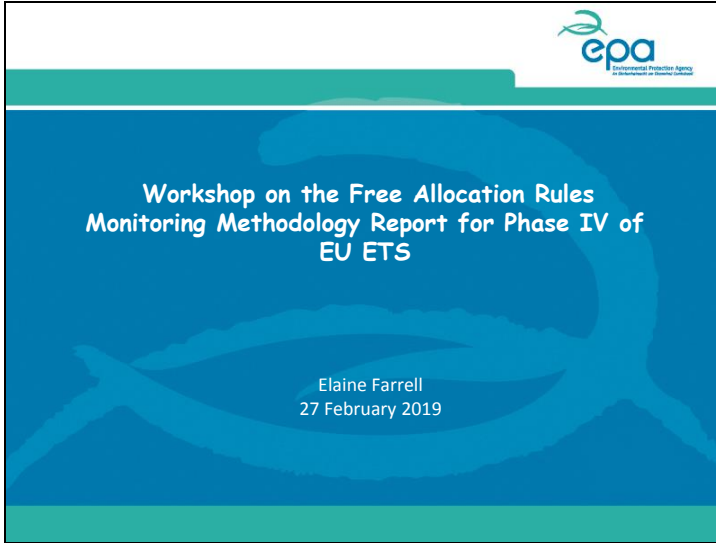


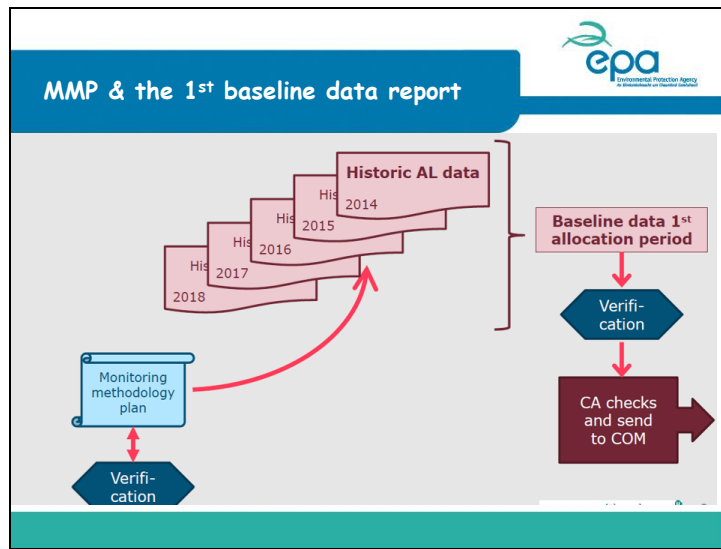
Slide 1

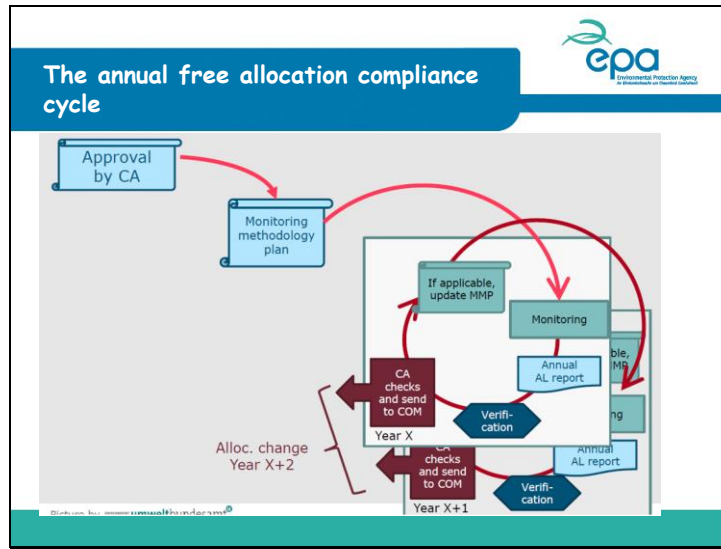



The slide features a white header bar at the top right containing the EPA logo, which includes the text "epa" and "Environmental Protection Agency" with a tagline "EPA - Environmental Protection Agency". Below the header is a dark blue background with a large, faint, light blue graphic of a stylized bird or wing. The main text is centered in white, and the date and presenter name are centered below it.

**Workshop on the Free Allocation Rules  
Monitoring Methodology Report for Phase IV of  
EU ETS**

Elaine Farrell  
27 February 2019








## The MMP - Content


- The MMP is a “user manual” for staff at the installation and basis for verification.
- MMP has to contain the following:
  - Installation description (processes, installation)
  - Flow chart/diagram showing material and energy flows (and measuring instruments, sampling points)
  - “**everything that has to be reported**” in the baseline data report
  - **Backward**-looking methodologies for historical data as well as instructions for future monitoring (**forward**-looking)
- Too detailed or frequently changing elements should be put into the procedures (no formal approval needed for updates)



## Developing the MMP

- Know your installation-keep it simple
  - Use existing, reliable data sources
  - Keep data flow short, have effective controls
- Think like a verifier, and be open to improvement
- Determine the relevant sub-installations
- Determine the necessary data sets to be monitored
- Determine for each data set
  - Primary data sources and (where possible) corroborating data sources – for historic data as well as for monitoring data
- Establish the internal control system
- Do completeness checks
  - Use the MMP or baseline data report template as a check list

Sheet B -Installation Data



---

**1. INSTALLATION DATA**

**1.1. Description of the installation**

1. Consent to use the data contained in this file.  
 The information contained in this file will be used by the competent authority for determining the free allocation pursuant to Article 10a of the ETS Directive, and by the European Commission for allocating free allowances. Furthermore, this information might be used by the European Commission in part or as a whole, if requested so, for the purpose of conducting the national implementation measures required to Article 10(1) of the ETS Directive.  
 Please confirm consent to use information contained in this monitoring methodology plan.

---

Details about the Operator, location of installation and contact details

**2. About the operator**

(a) Operator Name:

(b) Member State:

(c) Emissions trading permit number:

(d) Competent Authority:

**3. About your installation**

(a) Name of the installation and the site on which it is located:

i. Installation name:

ii. Site name:

iii. NUTS code of the installation (as in NUTS):

iv. NUTS code of the region (as in NUTS):

v. NUTS code of the country (as in NUTS):

(b) Address / location of the site of the installation:

i. Address Line 1:

ii. Address Line 2:

iii. City:

iv. Postal/Zip/Postcode/Region:

v. Province/State:

vi. Country:

**4. Contact details**

Who can we contact about your monitoring methodology plan?

(a) Primary contact:

Title:

First Name:

Surname:

and the Organisation name (if different from the operator):

Telephone number:

Email address:

(b) Alternative contact:

Title:

First Name:

Surname:


Details about the Operator, location of installation and contact details







## Sheet D -Methods and procedures at installation level Part II




- Description and reference to Procedures required by sections 1.(f) to (h) of Annex VI of FAR
- Where relevant and to the extent possible please refer to the corresponding procedures in your approved Monitoring Plan for Monitoring and Reporting regulation (MRR).

1) Please refer to the procedures regularly updated (2019-2021) of Annex VI of the FAR	
(a) Please give a reference to the procedure for mapping the assignment of responsibilities for monitoring and reporting with the installation, and for managing the competence of assigned personnel	
(b) Please give a reference to the procedure for regular evaluation of the monitoring methodology plan's appropriateness in accordance with Article 102	
(c) Please give a reference to the written procedure of the data flow analysis pursuant to Art. 102), including diagrams where appropriate for justification	

Sheet E -Energy Flows



For each relevant section, Fuel input measurable heat, waste gas and electricity at installation level the following is required:

- Information on methodology applied:
  - 3 data sources can be selected for each parameter, any additional can be included in description of methodology text box.
  - Description should be detailed and include all required elements listed in "Introduction to this sheet".
- Has Hierarchy set out in Section 4 of Annex VII of FAR been followed?
  - If not why? Reasons can be:
    - Uncertainty assessment
    - Technical infeasibility
    - Unreasonable costs

**Fuel Input Data**

1. Measurement method used

2. Data source

3. Description of methodology applied

4. Relevant uncertainty factors

5. Technical infeasibility/Unreasonable costs

---

**Measurement of emissions**

1. Measurement method used

2. Data source

3. Description of methodology applied

4. Relevant uncertainty factors

5. Technical infeasibility/Unreasonable costs

All descriptions of methods in Sheet E to include:

Calculation steps

Data sources

Calculation formulae

Relevant calculation factors including units of measurement

Horizontal and vertical checks for

corroborating data


Procedures underpinning sampling plans

Details of measurement equipment and

how they are installed and maintained

List of laboratories


Sheet F -Product Benchmarks



F.I.1 (a) System Boundaries:  
Description to include:

- Technical units included
- processes are carried out
- Input materials and fuels
- Products and outputs attributed
- Import and export of any intermediate products covered by product benchmark


Include reference to attached flow diagram and files if necessary.



All descriptions of methods in Sheet F to include:

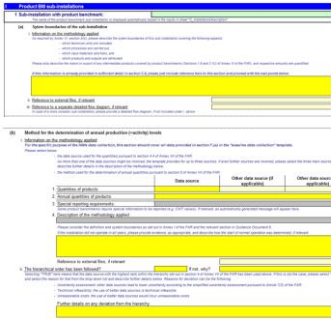
- Calculation steps
- Data sources
- Calculation formulae
- Relevant calculation factors including units of measurement
- Horizontal and vertical checks for corroborating data
- Procedures underpinning sampling plans
- Details of measurement equipment and how they are installed and maintained
- List of laboratories

Sheet F -Product Benchmarks



F.I.1 For each relevant section, Determination of annual production (activity) levels and exchangeability of fuel and electricity the following is required:

- Information on methodology applied:
  - 3 data sources can be selected for each parameter, any additional can be included in description of methodology text box.
  - Description should be detailed and include all required elements listed in "Introduction to this sheet".
  - Methodology for tracking products produced (annual production)
- Has Hierarchy set out in Section 4 of Annex VII of FAR been followed?
  - If not why? Reasons can be:
    - Uncertainty assessment
    - Technical infeasibility
    - Unreasonable costs



All descriptions of methods in Sheet F to include:

Calculation steps

Data sources

Calculation formulae

Relevant calculation factors including units of measurement

Horizontal and vertical checks for

corroborating data


Procedures underpinning sampling plans

Details of measurement equipment and

how they are installed and maintained

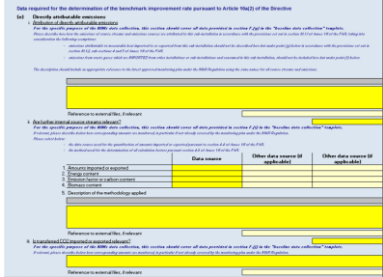
List of laboratories

**Sheet F -Product Benchmarks-  
attribution of emissions**




**F.1.1 (e) Description should be detailed and include all required elements listed in "Introduction to this sheet" in relation to method for attribution of directly attributable emissions.**

Give details of whether further internal source streams or transferred CO2 is relevant. Include data sources where relevant.



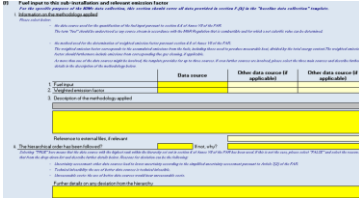
- All descriptions of methods in Sheet F to include:
- Calculation steps
  - Data sources
  - Calculation formulae
  - Relevant calculation factors including units of measurement
  - Horizontal and vertical checks for corroborating data
  - Procedures underpinning sampling plans
  - Details of measurement equipment and how they are installed and maintained
  - List of laboratories

## Sheet F -Product Benchmarks- attribution of emissions



F.I.1 (f) - (h) For each relevant section, fuel input , measurable heat import and export, waste gas balance:

- Information on methodology applied:
  - 3 data sources can be selected for each parameter, any additional can be included in description of methodology text box.
  - Description should be detailed and include all required elements listed in "Introduction to this sheet".
- Has Hierarchy set out in Section 4 of Annex VII of FAR been followed?
  - If not why? Reasons can be:
    - Uncertainty assessment
    - Technical infeasibility
    - Unreasonable costs



All descriptions of methods in Sheet F to include:

Calculation steps

Data sources

Calculation formulae

Relevant calculation factors including units of measurement

Horizontal and vertical checks for

corroborating data


Procedures underpinning sampling plans

Details of measurement equipment and

how they are installed and maintained

List of laboratories

Sheet G -Fall Back Benchmarks




**G.I.1 (a) System Boundaries:**

- Technical units included
- processes are carried out
- Input materials and fuels
- Products and outputs attributed

Include reference to attached flow diagram and files if necessary.

**G.I.1.(b) Method for Determination of annual activity levels including:**

- Data Sources
- Description
- Methodology for tracking products produced (annual production) (PRODCOM)
- Has Hierarchy set out in Section 4 of Annex VII of FAR been followed?
  - If not why? Reasons can be:
    - Uncertainty assessment
    - Technical infeasibility
    - Unreasonable costs



All descriptions of methods in Sheet G to include:

Calculation steps

Data sources

Calculation formulae

Relevant calculation factors including units of measurement

Horizontal and vertical checks for

corroborating data


Procedures underpinning sampling plans

Details of measurement equipment and

how they are installed and maintained

List of laboratories

## Sheet G -Fall Back Benchmarks- attribution of emissions



**Data required for the determination of the benchmark improvement rate pursuant to Article 10a(2) of the Directive**

**(c) Directly attributable emissions**  
*For the specific purpose of the GHG data collection, this section should cover all data provided in section G.1(f) in the "baseline data collection" template. Please describe how the emissions of scope three and emissions covered are attributed to this sub-installation in accordance with the provisions set out in section 81.1 of Annex IV of the FGR, taking into consideration the following exceptions:*

*• Emissions from other facilities produced for this sub-installation, the emissions may be directly attributed from the host's emissions.*  
*• Emissions from other facilities produced from other plants reported from other installations or sub-installations, or a more complex chain network with several host-producing units; the facts should not be included in the Directly attributable emissions of the sub-installation but under point G.1 below.*

*• If the host is produced from DMF, please describe how all parameters in chapter 3 of Annex IV of the FGR have been determined.*  
*• Emissions associated with unavoidable host produced from other plants reported from other installations or sub-installations and used in this sub-installation, should not be included but, but under point G.1 below.*

Reference to external files, if relevant


**G.1.1 (e) Description should be detailed and include all required elements listed in "Introduction to this sheet" in relation to method for attribution of **directly attributable emissions**.**

All descriptions of methods in Sheet G to include:

- Calculation steps
- Data sources
- Calculation formulae
- Relevant calculation factors including units of measurement
- Horizontal and vertical checks for corroborating data
- Procedures underpinning sampling plans
- Details of measurement equipment and how they are installed and maintained
- List of laboratories

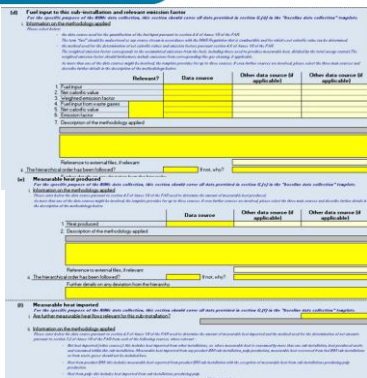


## Sheet G -Fallback Benchmarks- attribution of emissions



**G.1.1 (d) - (f)** For each relevant section, fuel input , measurable heat produced and imported:

- Information on methodology applied:
  - Data Sources.
  - Description should be detailed and include all required elements listed in "Introduction to this sheet".
- Has Hierarchy set out in Section 4 of Annex VII of FAR been followed?
  - If not why? Reasons can be:
    - Uncertainty assessment
    - Technical infeasibility
    - Unreasonable costs



All descriptions of methods in Sheet G to include:

Calculation steps

Data sources

Calculation formulae

Relevant calculation factors including units of measurement

Horizontal and vertical checks for

corroborating data


Procedures underpinning sampling plans

Details of measurement equipment and

how they are installed and maintained

List of laboratories

## Sources of Information

  
Environmental Protection Agency  
U.S. Department of Health and Human Services

- FAR Regulation
- [https://eur-lex.europa.eu/resource.html?uri=cellar:86d7e8c2-03a3-11e9-adde-01aa75ed71a1.0008.02/DOC\\_1&format=PDF](https://eur-lex.europa.eu/resource.html?uri=cellar:86d7e8c2-03a3-11e9-adde-01aa75ed71a1.0008.02/DOC_1&format=PDF)
- [https://eur-lex.europa.eu/resource.html?uri=cellar:86d7e8c2-03a3-11e9-adde-01aa75ed71a1.0008.02/DOC\\_2&format=PDF](https://eur-lex.europa.eu/resource.html?uri=cellar:86d7e8c2-03a3-11e9-adde-01aa75ed71a1.0008.02/DOC_2&format=PDF)
- Commission Website
- [https://ec.europa.eu/clima/policies/ets/revision\\_en](https://ec.europa.eu/clima/policies/ets/revision_en)
- Commission Guidance Documents (Under Documentation Phase IV section)-see Guidance Document 5 in relation to MMP [https://ec.europa.eu/clima/policies/ets/allowances\\_en](https://ec.europa.eu/clima/policies/ets/allowances_en)