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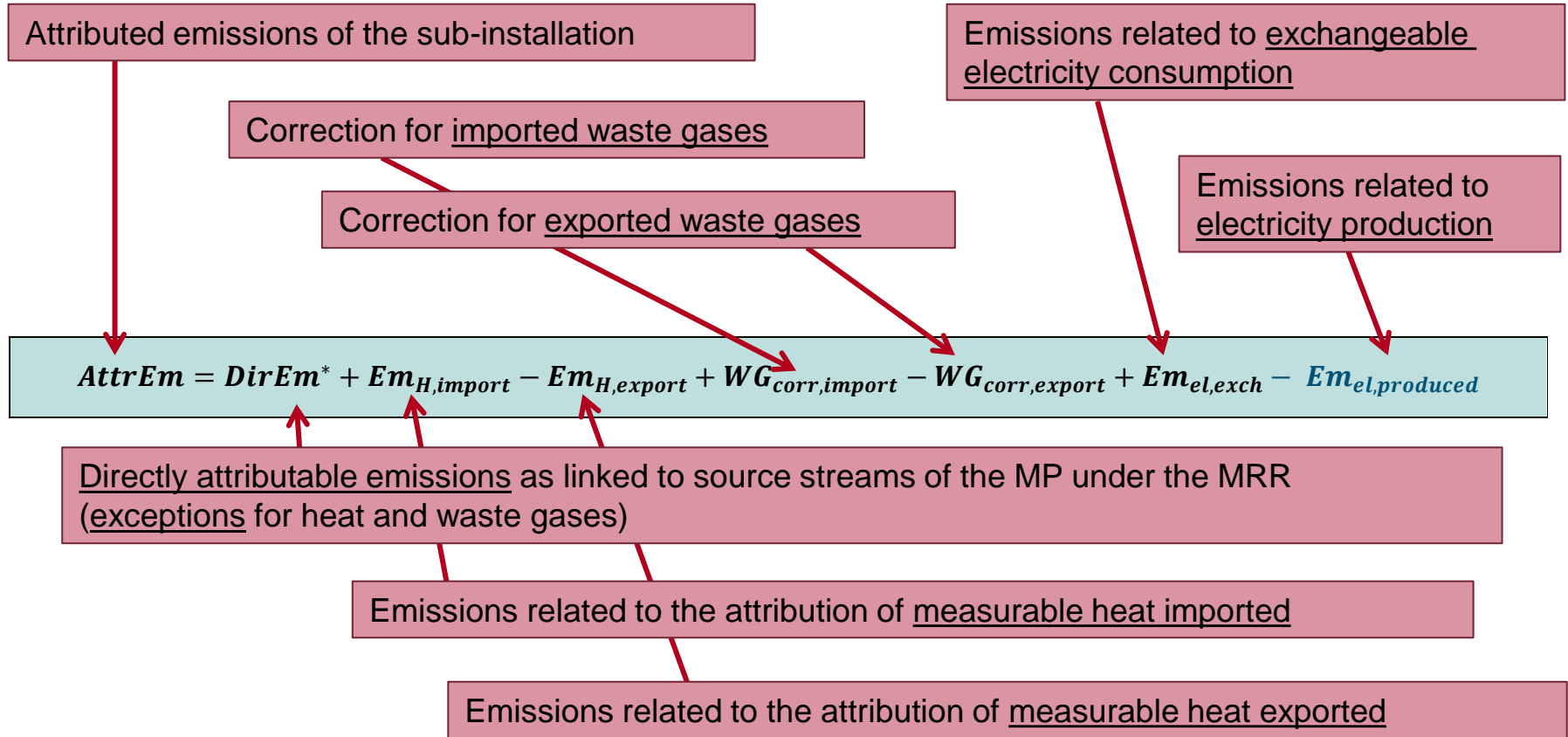
EU ETS - Free Allocation Rules post 2020

WORKSHOPS FOR COMPETENT AUTHORITIES



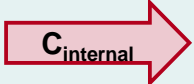



 **SQ**
sustainable quality consult

ENVIRONMENT
AGENCY AUSTRIA **umweltbundesamt**^U

BM Update – Attributed emissions



Examples – colour codes

| Arrow type | Description |
|---|---|
|  | Green arrows are used for source streams found in the MP under the MRR (“MP source streams”). |
|  | Grey arrows are used for fuels which are combusted outside the system boundaries of the installation, i.e. not covered by the MP under the MRR. |
|  | Light red arrows are used for “internal source streams” which are not covered by the MP (e.g. because a mass balance is applied over the whole installation). |
|  | Dark blue arrows are used for measurable heat flows. |
|  | Blue arrows are used for products, e.g. product BM products. |
|  | Red arrows are used for electricity flows. |

Link to templates

Notes required for the determination of the benchmark improvement rate personal to Article 90(2) of the Sub-installation with product benchmark:

[More information on the calculation can be found in section 6.10.4.2 of the](#)

14) Directly attributable emissions [DirEm*] (MPP source streams) in this sub-installation

14.1 Directly attributable

14.2 Fuel input in this sub-installation and relevant emissions

14.3 Further internal source streams imported in and exported from this sub-installation

14.4 Name of further source streams - 9:

14.5 Name of further source streams - 8:

14.6 Name of further source streams - 7:

14.7 Name of further source streams - 6:

14.8 Name of further source streams - 5:

14.9 Name of further source streams - 4:

14.10 Name of further source streams - 3:

14.11 Name of further source streams - 2:

14.12 Name of further source streams - 1:

15) Annual of CO₂ imported or exported as feedstock

16) Residual heat input to and output from this sub-installation

16.1 Total heat input

16.2 Specific heat input

16.3 Heat input from pulp

16.4 Heat input from nitric acid

16.5 Total heat exported

16.6 Specific heat exported

17) Waste gas balance for this sub-installation

17.1 Are waste gases referred for this sub-installation?

17.2 Type of waste gases produced:

17.3 Type of waste gases consumed:

17.4 Type of waste gases flared:

18) Electricity production

18.1 Electricity produced

19) Total amount of pulp produced

19.1 Total amount of pulp produced

19.2 Import or export of intermediate products covered by product benchmark

19.3 Imported intermediate products

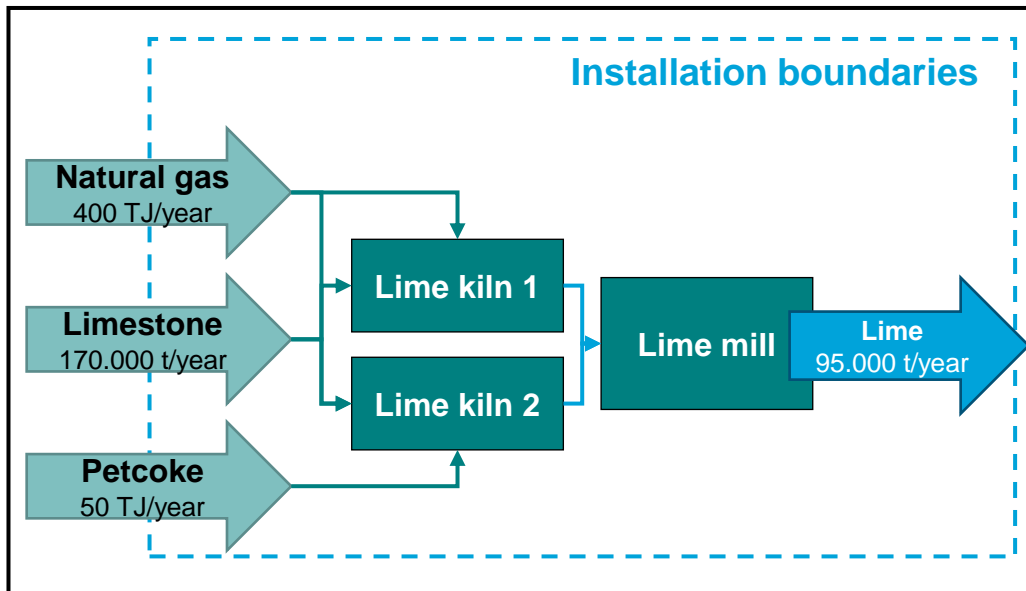
19.4 Exported intermediate products

19.5 Description of the intermediate products imported or exported

| Attributed emissions | Relevant section in the baseline data collection template | | Relevant section in the MMP Template | | Relevant examples in this section |
|---|---|-------------|--------------------------------------|-------------|-----------------------------------|
| | Product BM | Fallback BM | Product BM | Fallback BM | |
| <i>DirEm*</i> (MP source streams) | F.g | G.c | F.e.i | G.c | All |
| <i>DirEm*</i> (Internal source streams) | F.i | - | F.e.ii | - | WG-1 |
| <i>DirEm*</i> (CO ₂ feedstock) | F.j | - | F.e.iii | - | - |
| <i>Em_{H,import}</i> | F.k | G.1.f | F.g | G.1.f | MH(all), WG-3, Elec-2 |
| <i>Em_{H,export}</i> | F.k | G.4.e | F.g | G.4.e | MH(all) |
| <i>WG_{corr,import}</i> | F.l | G.4.d | F.h | G.4.d | WG(all) |
| <i>WG_{corr,export}</i> | F.l | - | F.h | - | WG(all) |
| <i>Em_{el,exch}</i> | F.c | - | F.c | - | Elec-1 |
| <i>Em_{el,prod}</i> | F.m | - | F.c | - | Elec-2 |
| Parameter: Fuel input | F.h | G.d | F.f | G.d | All |
| Parameter: Fuel input from waste gases (WG) | F.k | G.1.f | F.g | G.1.f | |
| Parameter: Heat produced | - | G.4.e | F.g | G.4.e | |
| Parameter: Heat from pulp | F.k | G.1.f | F.g | G.1.f | |
| Parameter: Heat from nitric acid | F.k | G.1.f | F.g | G.1.f | |
| Parameter: Waste gases produced | F.l | G.4.d | F.h | G.4.d | |
| Parameter: Waste gases consumed | F.k | G.4.e | F.g | G.4.e | |
| Parameter: Waste gases flared | F.l | G.4.d | F.h | G.4.d | |
| Parameter: Total pulp produced | F.n | G.1.g | F.g | G.1.g | |
| Parameter: Intermediate products | F.o | G.1.g | F.g | G.1.g | |

No direct impact on attributed emissions (consistency checks, etc.)

Case study 1

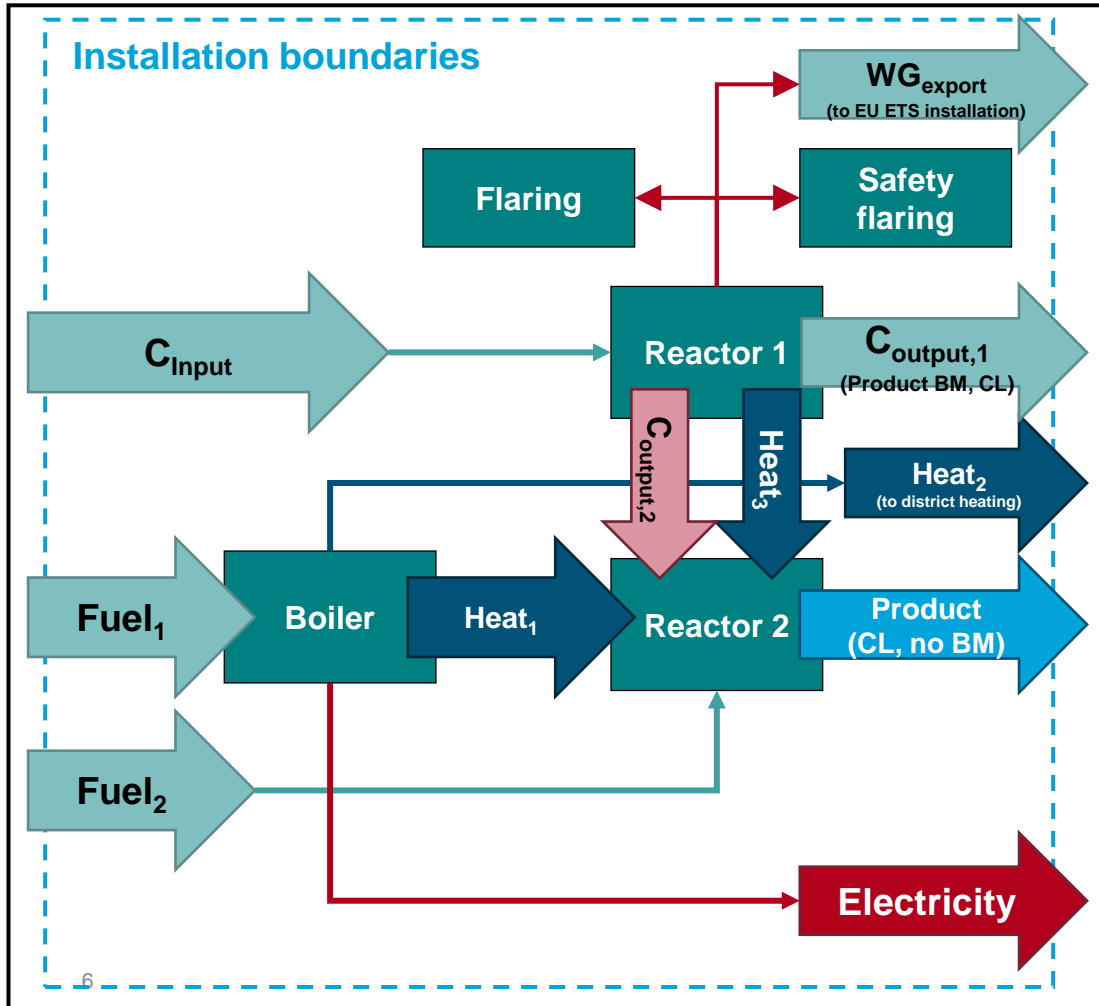


| | |
|----------------|---------------------------|
| EF Natural gas | 56 t CO ₂ /TJ |
| EF Petcoke EF | 96 t CO ₂ /TJ |
| EF Limestone | 0.44 t CO ₂ /t |

| Parameter | Value |
|--|-------|
| <i>Activity level (HAL)</i> | |
| <i>DirEm* (MP source streams)</i> | |
| <i>DirEm* (Internal source streams)</i> | |
| <i>DirEm* (CO₂ feedstock)</i> | |
| <i>Em_{H,import}</i> | |
| <i>Em_{H,export}</i> | |
| <i>WG_{corr,import}</i> | |
| <i>WG_{corr,export}</i> | |
| <i>Em_{el,exch}</i> | |
| <i>Em_{el,prod}</i> | |
| <i>Parameter: Fuel input</i> | |
| <i>Parameter: Fuel input from WG</i> | |
| <i>Parameter: Heat produced</i> | |
| <i>Parameter: Heat from pulp</i> | |
| <i>Parameter: Heat from nitric acid</i> | |
| <i>Parameter: Waste gases produced</i> | |
| <i>Parameter: Waste gases consumed</i> | |
| <i>Parameter: Waste gases flared</i> | |
| <i>Parameter: Total pulp produced</i> | |
| <i>Parameter: Intermediate products</i> | |

Case study 2

- Identify for all sub-installations:



| Parameter | Value |
|--|-------|
| <i>Activity level (HAL)</i> | |
| <i>DirEm* (MP source streams)</i> | |
| <i>DirEm* (Internal source streams)</i> | |
| <i>DirEm* (CO₂ feedstock)</i> | |
| <i>Em_{H,import}</i> | |
| <i>Em_{H,export}</i> | |
| <i>WG_{corr,import}</i> | |
| <i>WG_{corr,export}</i> | |
| <i>Em_{el,exch}</i> | |
| <i>Em_{el,prod}</i> | |
| <i>Parameter: Fuel input</i> | |
| <i>Parameter: Fuel input from WG</i> | |
| <i>Parameter: Heat produced</i> | |
| <i>Parameter: Heat from pulp</i> | |
| <i>Parameter: Heat from nitric acid</i> | |
| <i>Parameter: Waste gases produced</i> | |
| <i>Parameter: Waste gases consumed</i> | |
| <i>Parameter: Waste gases flared</i> | |
| <i>Parameter: Total pulp produced</i> | |
| <i>Parameter: Intermediate products</i> | |

Contact & Information



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