Navi	gation area:			Next sheet	Summary
	Top of sheet End of sheet				
		-			
Bł	ASELINE L	DATA REPORT 1	for Phase 4 of t	<u>ne EU EIS</u>	
CO	NTENTS				
	GUIDELINES AND C				
Α.		Data" - GENERAL INFORMATIC	ON ON THIS REPORT		
<u>l</u>	Identification of the l				
	Information on this b List of sub-installatio				
	List of technical conr				
		ssions Data" for the Year:			
2.0	2014				
	2015				
	2016				
	<u>2017</u>				
_	2018				
D.		- ATTRIBUTION OF EMISSION	-		
1		ouse Gas Emissions and Energy ons to sub-installations	Input from Fuels		
<u><u> </u></u>	Cogeneration tool	ons to sub-installations			
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		s" - DATA ON ENERGY INPUT	. MEASURABLE HEAT AND EL		
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	Waste gas balance				
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F.		- SUB-INSTALLATION DATA		CHMARKS	
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G.		s and disaggregated production		INSTALLATIONS	
H.		- SPECIAL DATA FOR SOME I			
	CWT (Refinery prod				
<u> </u>	Lime				
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IV	Steam cracking				

- <u>CWT (Aromatics)</u>

- VI
 Hydrogen

 VII
 Synthesis gas

 VIII
 Ethylene oxide / glycols

 IX
 Vinyl chloride monomer (VCM)
- Sheet "MSspecific" ADDITIONAL DATA REQUIREMENTS BY THE MEMBER STATE I.
- To be defined by the Member State Т Sheet "Comments" - COMMENTS AND FURTHER INFORMATION
- J. Documents supporting this report Free space for all kinds of supplemental information
- 1 Ū.
- κ. Sheet "Summary" - OVERVIEW OF MOST IMPORTANT DATA
- Installation data 1
- Ĩ Baseline period and eligibility
- Ш Emissions and Energy Flows

Relevant baseline period

- Sub-installation data relevant for allocation and benchmark update purposes IV
- V Calculation of preliminary annual amount of allowances allocated free of charge

Language version:	English
Reference filename:	NIMs P4 baseline_COM_en_250119.xls
Information about this file:	
Information about this file:	
Information about this file: Installation name:	

If your competent authority requires you to hand in a signed paper copy of the report, please use the space below for signature:

Date

Name and Signature of legally responsible person

	Navigation area:	Table of contents	Previous sheet	Next sheet	<u>Summary</u>
b	Top of sheet				
	End of shoot				

GUIDELINES AND CONDITIONS

General Information on this Template

- 1 Directive 2003/87/EC, as amended most recently by Directive 2018/410/EU (hereinafter "the EU ETS Directive") requires Member States to allocate allowances for free to installations based on Community-wide and fully-harmonised rules (Article 10a(1)). The Directive can be downloaded from: https://eur-lex.europa.eu/eli/dir/2003/87/2018-04-08
- These Free Allocation Rules (hereinafter "the FAR") [OJ reference to be added when available] have been adopted by the Commission on [19 December 2018]. A draft can be downloaded from:
- https://ec.europa.eu/info/law/better-regulation/initiatives/ares-2018-5486983_en
- 3 An essential element of the FAR is a data collection to be carried out by Member States in order to collect all relevant information from operators of installations needed (a) by the Member States for calculating the preliminary free allocation of allowances, and (b) by the Commission for updating the benchmark values.
- This data collection template has been developed on behalf of the Commission by its consultants (Umweltbundesamt GmbH Austria and SQ Consult). The views expressed in this file represent the views of the authors and not necessarily those of the European Commission.
- This is the final draft of 25 January 2019 for discussion within the relevant expert group (CCEG).
- IT NOT TO BE USED for any data submission.

How to use this file

- 6 Automatic calculation (to be found in the menu Formula/Calculation options) must be turned on.
- It is recommended that you go through the file from start to end. There are a few functions which will guide you through the form which depend on previous input, such as cells changing colour if an input is not needed (see colour codes below). However, sometimes it is relevant to first continue data input in another sheet before going on (e.g. "H_specialBM" needs input before "F_ProductBM" can be finalised in cases where Annex III of the CIMs must be applied). It is especially important to fill in sheet "A_InstallationData", sections A.II.2 (Baseline period chosen) and A.III (definition of sub-installations). Without correct information there, calculation results may be wrong, or data for sub-installations may not be possible to enter correctly.
- 7 Whenever a value of zero is to be reported, it should be entered rather than keeping the cell empty. If a cell is kept empty, the competent authority (CA) does not know if the value has not been reported, is irrelevant or unknown. Values needed for calculations should always be entered (especially if zero, because some formulas don't give results as long as required cells are empty).
- 8 In several fields you can choose from predefined inputs. For selecting from such a "drop-down list" either click with the mouse on the small arrow appearing at the right border of the cell, or press "Alt-CursorDown" when you have selected the cell. Some fields allow you to input your own text even if such a drop-down list exists. This is the case when drop-down lists contain empty list entries.
- 9 Error messages will occur sometimes when data entries are incomplete. However, the non-appearance of error messages is not a guarantee for correct calculations, as not always a data completeness test is possible. If no result appears in a green field, it can be assumed that some data is still missing. Special care must be taken of consistency of data with the units displayed. Error messages are often very short due to the little place available. The most important ones are:

ges	es are often very short due to the little place available. The most important ones are:		
	incomplete!	Means that data is not sufficient for calculation (e.g. an emission factor is missing in one year)	
	inconsistent!	The units selected are inconsistent, and calculations based upon related inputs will give wrong results.	
	negative!	In this calculation no negative values are allowed.	
	A.II.1.a-g! These are references to document sections. This means that data in the referenced sections are missing.		

10 Colour codes and fonts: Black bold text:

This is	text	describing	the	input	required
---------	------	------------	-----	-------	----------

maller italic text:	This text gives further explanations.
	Yellow fields indicate mandatory inputs. However, if the topic is not relevant for the installation, no input is required.
	Light yellow fields indicate that an input is optional.
	Green fields show automatically calculated results. Red text indicates error messages (missing data etc).
	Shaded fields indicate that an input in another field makes the input here irrelevant.
	Grey shaded areas should be filled by Member States before publishing customized version of the template.
	Light grey areas are dedicated for navigation and hyperlinks.

- 11 Navigation panels on top of each sheet provide hyperlinks for quick jumps to individual input sections. The first line ("Table of contents", "Previous sheet", "next sheet", "Summary") and the points "Top of sheet" and "End of sheet" are the same for all sheets. Depending on the sheet, further menu items are added. If the background colour of one of the hyperlink areas turns red, this indicates that data is missing in the related section (not in all sheets).
- 12 This template has been locked against data entry except for yellow fields. However, for transparency reasons, no password has been set. This allows for complete viewing of all formulae. When using this file for data entry, it is recommended to keep the protection in force. The sheets should only be unprotected for checking the validity of formulae. It is recommended to do this in a separate file.
- 13 In order to protect formulae against unintended modifications, which usually lead to wrong and misleading results, it is of utmost importance NOT TO USE the CUT & PASTE feature.
- If you want to move data, first COPY and PASTE them, and thereafter delete the unwanted data in the old (wrong) place.
- 14 Data fields have not been optimized for numerical and other formats. However, sheet protection has been limited so as to allow you to use your own formats. In particular, you may decide about the number of decimal places displayed. The number of places is in principle independend from the precision of calculation. In principle the option "Precision as displayed" of MS Excel should be deactivated. For more details, consult MS Excel's "Help" function on this topic.

¹⁵ DISCLAIMER: All formulae have been developed carefully and thoroughly. However, mistakes cannot be fully excluded.
 As described above, full transparency for checking the validity of calculations is ensured. Neither the authors of this file nor the European Commission can be held liable for eventual damages resulting from wrong or misleading results of the provided calculations.
 It is the full responsibility of the user of this file (i.e. the operator of an EU ETS installation) to ensure that correct data is reported to the competent authority.

Member State specific information:

This Report must be submitted to your Competent Authority to the following address:

Detail address to be provided by the Member State

Information sources: EU Websites: EU-Legislation: EU ETS general:

http://eur-lex.europa.eu/en/index.htm http://ec.europa.eu/clima/policies/ets/index_en.htm

Other Websites: <to be provided by Member State>

Helpdesk: <to be provided by Member State, if relevant>

Further guidance as provided by the Member State:

<<< Click here to proceed to next sheet >

Α.	Navigation area:	Table of contents	Previous sheet	Next sheet	Summary
Installation	Top of sheet	Installation ID	Contact persons	<u>Verifier</u>	Further information
Data	End of sheet	<u>Eligibility</u>	Baseline period	Sub-installations	Technical connections

A. Sheet "InstallationData" - GENERAL INFORMATION ON THIS REPORT

Identification of the Installation 1 General information: (a) Name of the installation: This name should be the same as has been already used for correspondence with the competent authority. (b) Member State in which the installation is situated: "Member State" means here: State which participates in the EU ETS, i.e. EU Member States and Iceland, Norway and Liechtenstein. (c) Has this installation been included in the EU ETS before? (d) Unique identifier provided by the competent authority: This is the ID used by the competent authority for correspondence with the installation, e.g. for free allocation in earlier periods For installations which have not been included in the EU ETS before, operators are requested to contact the competent authority to receive such ID. Competent authorities must ensure to have a unique ID available before notifying any data to the European Commission. (e) Identification code of the installation in the Registry: This is usually a natural number, i.e. a code different from the Permit identifier used in the Registry (EUTL). Together with the Member State selected under (b), this Registry ID (unique ID) will result in the Unique ID displayed automatically in (f) below. E.g. if the installation with Registry ID 123456 is situated in Belgium, this will result in "BE00000000123456". If your installation received free allocation in the previous phase of the EU ETS, please ensure that the Unique ID is identical to the one in the previous phase. (f) Unique ID for notification to the Commission: (q) Information on the greenhouse gas emissions permit: Please provide here information on the greenhouse gas emissions permit (=permit issued in accordance with Articles 5 and 6 of the EU ETS Directive). Member States may make this information optional if the competent authority is in possession of this information already. Name of Competent authority: First GHG permit received when the installation was included in the ETS for the first time: Permit-ID: i. ii. Date of issuance: Most recent update of the permit, if applicable: iii. Permit-ID: iv. Date of issuance: (h) Date of start of operation of the installation:

This input is only relevant if the installation, as a whole, has started operation after 1 January 2014.

(i) This installation is an incumbent:



An installation is an incumbent if it has received a greenhouse gas emission permit for the first time on or before:

- 30 June 2019 for the allocation period 2021-2025, or

- 30 June 2024 for the period 2026-2030.

All installations which are not incumbents according to the above criteria will be considered "New entrants" by the competent authority.

New entrants are not to be notified to the Commission under the national implementation measures pursuant to Article 11 of the EU ETS Directive.

Consequently, this template has not been developed for the use by new entrants.

(j) Operator data:

The operator is the [natural or legal] person who operates or controls an installation or, where this is provided for in national legislation, to whom decisive economic power over the technical functioning of the installation has been delegated.

i.	Operator Name:	
ii.	Street, Number:	
iii.	ZIP-Code:	
iv.	City:	
٧.	Country:	
vi.	Name of authorized representative:	
vii.	Email:	
viii.	Telephone:	
ix.	Fax:	

(k) Installation address:

i.	Street, Number:	
ii.	ZIP-Code:	
iii.	City:	
iv.	Country:	

2 Contact persons:

Please nominate persons here whom the competent authority can contact in case of questions regarding this report, including its verification.

(a) Authorised representative of the operator in charge of this installation:

i.	Name:	
ii.	Email:	
iii.	Telephone:	
iv.	Fax:	

(b) Primary contact person for technical questions regarding installation data, if different from (a):

i.	Name:	
ii.	Email:	
iii.	Telephone:	
iv.	Fax:	

3 Verifier engaged for this baseline data report:

(a) Name and address of the verifier of this baseline data report:

20.02.2019: 12:08

i.	Company Name:	
ii.	Street, Number:	
iii.	City:	
iv.	Postcode/ZIP:	
ν.	Country:	

(b) Authorised representative of the verifier:

The nominated person should be familiar with this report. Ideally it is the lead verifier involved with this report.

i.	Name:	
ii.	Email address:	
iii.	Telephone number:	
iv.	Fax:	

(c) Information about the verifier's accreditation:

i.	Accreditation Member State:	
ii.	Name of the national accreditation body:	
iii.	Registration number issued by the	
	Accreditation body:	

4 Further installation data:

(a) Activities according to Annex I of the EU ETS Directive:

This information is important for the competent authorities because changes compared to previous ETS phases may have taken place.

To the extent feasible, please sort the list with regard to the direct emissions, starting with the activity causing the highest direct emissions.

Number	Name of activity (Annex I of the ETS Directive)
1	
2	
3	
4	
5	
6	

(b) Under which NACE code has your company reported value added for structural business statistics?

If you are not sure about the values to enter here, please contact your relevant national statistics office.

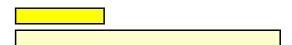
NACE rev 2.0 can be found here:

http://ec.europa.eu/eurostat/ramon/nomenclatures/index.cfm?TargetUrl=LST_CLS_DLD&StrNom=NACE_REV2&StrLanguageCode=EN&StrLayoutCode=HIERARCHIC

NACE codes shall be entered at 4-digit level, in the form "nnnn", i.e. without any dots or other delimiters inbetween.

You will receive an error message if you do not enter exactly 4 digits.

NACE code reported using NACE rev 2 classification:



(c) Please provide the identification code of the installation in the EPRTR, if applicable:

The EPRTR is the European Pollutant Release and Transfer Register.

This information is useful for the competent authorities for consistency checks and alignment of environmental information sources.

(d) Eligibility for exclusion pursuant to Article 27 of the EU ETS Directive

Pursuant to Article 27 of the EU ETS Directive, the following types of installations may be excluded from the EU ETS if they undertake equivalent measures:

- installations which have reported to the competent authority emissions of less than 25 000 tonnes of carbon dioxide equivalent and, where they carry out combustion activities, have a rated thermal input below 35 MW, excluding emissions from biomass, in each of the last three years.

- For the data collection in 2019, these three years are 2016 to 2018. For the data collection in 2024, those are 2021 to 2023.
- Installations which are hospitals.
- i. Did the installation emit less than 25 000 tonnes and have a rated thermal input below 35MW?
- ii. Is the Installation a hospital?
- iii. The installation is eligible for exclusion pursuant to Article 27 of the EU ETS Directive:

(e) Eligibility for exclusion pursuant to Article 27a of the EU ETS Directive

Pursuant to Article 27a of the EU ETS Directive, following consultation with the operator, Member States may exclude the following types of installations from the EU ETS:

- installations which have reported to the competent authority emissions of less than 2 500 tonnes of carbon dioxide equivalent, excluding emissions from biomass, in each of the last three years;
- units kept in reserve or as backup which did not operate more than 300 hours per year in each of the three years;
- i. Did the installation emit less than 2 500 tonnes CO2(e) per year?
- ii. Did units kept in reserve or as back-up in the installation not operate more than 300 hours per year?
- iii. (Parts of) this installation is/are eligible for exclusion pursuant to Article 27a of the EU ETS Directive:



(f) Annual emissions from the three previous years for plausiblity checking of (d) above

The following data is automatically taken from sheet "D_Emissions".

	Unit	2016	2017	2018	Maximum
Annual emissions for plausibility checking:	t CO2e/year				

(g) Has the installation been opted-in?

Please provide information if the installation does not carry out at least one Annex I activity of the EU ETS Directive but has been unilaterally included by the Member State (opted-in) pursuant to Article 24 of that Directive.

Information on this baseline data report

1 Eligibility for free allocation:

(a) Is the installation an electricity generator pursuant to Article 3(u) of the Directive?

Article 3(u) defines: 'electricity generator' means an installation that, on or after 1 January 2005, has produced electricity for sale to third parties, and in which no activity listed in Annex I is carried out other than the combustion of fuels.

The Commission has provided a guidance paper to identify electricity generators.

(b) Is the installation an installation for the capture of CO2, for transport of CO2 or a CO2 storage site?

(c) This installation is considered as covered by Article 10a(3) of the EU ETS Directive:

If the answer to (a) or (b) was positive, the answer to (c) is automatically positive.

The linear factor referred to in Article 10a(4) of the Directive is applied to allocations of installations covered by Article 10a(3) of the Directive except for any year in which those allocations are adjusted in a uniform manner pursuant to Article 10a(5) of the Directive (see also Article 16(8) of the FAR).

(d) Does the installation produce heat not used for electricity production?

(e) Confirmation of non-eligibility for free allocation:

If the answer to (a) or (b) is positive, and if the answer to (d) is negative, the installation is not eligible for free allocation under Article 10a of the EU ETS Directive. If this is relevant for your installation, please confirm here:

Important notes:

If the installation is not eligible for free allocation under Article 10a of the EU ETS Directive, there is no obligation to report further detailed data in the following data sheets. It is only mandatory to complete this sheet ("InstallationData").

If no further data is to be reported, there is also no need for verification of this report. This report and especially the answers given in points (a) to (f) here have no impact on possible free allocations under Article 10c of the EU ETS Directive ("Option for transitional free allocation for the modernisation of the energy sector").

(f) Application for free allocation:

If the answers to points (a) and (b) are both negative, or if the answer to point (d) is positive, the installation can be considered as eligible for free allocation under Article 10a of the EU ETS Directive. If relevant for your installation, please confirm here that you apply for a free allocation of allowances under Article 10a:

(g) Consent to use the data contained in this file:

The data contained in this file will be used by the competent authority for determining the free allocation pursuant to Article 10a of the EU ETS Directive, and by the European Commission for updating benchmark values. Furthermore these data will be notified to the European Commission in part or as a whole, if requested so, for the purpose of scrutinizing the national implementation measures pursuant to Article 11(1) of the EU ETS Directive.

If the operator confirms point (e) or (f) above, it is automatically assumed that this also confirms consent to use data contained in this file.

2 Baseline period chosen

(a) Please select the baseline period for this report: This is the baseline period pursuant to Article 2(14) of the FAR.



(b) Years in which the installation was operating:

According to the first sub-paragraph of Article 15(7) of the FAR, for the purpose of the determination of the averages for historical activity levels only calendar years during which the installation has been operating for at least one day shall be taken into account.

Please enter in the table below for each year if the installation was operating at least one day per calendar year. Don't leave yellow cells empty.

Confirm:	2014	2015	2016	2017	2018
Installation was operating in this year:					
Error messages:					

II List of sub-installations

1 Product benchmark sub-installations

Please select here the product benchmark sub-installations relevant at your installation, if any:

For each type of product, only one sub-installation may be chosen. Similar products which are covered by the same product benchmark in Annex I of the FAR are aggregated.

The status regarding the exposure to significant risk of carbon leakage ("CL") is based on <ADD REFERENCE TO CLL ACT>.

Every sub-installation name may occur only once. Otherwise some parts of this template will not function properly.

In the second yellow column you have to provide the start of normal operation pursuant to Article 2(12) of the FAR for each sub-installation. This information is relevant to identify which years have to be taken into account for the determination of the historic activity level pursuant to Article 15(7) in sheets F and G. This input is only relevant if the sub-installation, has started operation after 1 January 2014.

Please note that the correct entries here are essential for all subsequent inputs dealing with sub-installations.

		Start of		
No.	Product type	operation	CL exposed?	
1			N.A.	
2			N.A.	
3			N.A.	
4			N.A.	
5			N.A.	
6			N.A.	
7			N.A.	
8			N.A.	
9			N.A.	
10			N.A.	

2 Sub-installations with fall-back approaches

Please indicate here which fall-back sub-installations are relevant at your installation, if any:

For each type of fall-back approach, a maximum of two sub-installations may exist, one exposed to significant risk of carbon leakage, the other non-exposed.

As an exception to that rule, for measurable heat a third sub-installation is defined for the delivery of district heating.

Please select for each type of sub-installation, if it is relevant in your installation or not. Don't leave the yellow fields empty.

Note that according to Article 10(3) of the FAR an exemption from the distinction of CL and non-CL may be granted for reporting purposes.

This exemption is applicable if at least 95% of inputs, outputs and emissions belong to one of the "CL" or "non-CL" status.

In the second yellow column you have to provide the start of normal operation pursuant to Article 2(12) of the FAR for each sub-installation. This information is relevant to identify which years have to be taken into account for the determination of the historic activity level pursuant to Article 15(7) in sheets F and G. This input is only relevant if the sub-installation, has started operation after 1 January 2014.

Please note that the correct entries here are essential for all subsequent inputs dealing with sub-installations.

No.	Sub-installation type	relevant?	Start of operation	CL exposed?
	Heat benchmark sub-installation, CL			PRAWDA
12	Heat benchmark sub-installation, non-CL			FAŁSZ
	District heating sub-installation			FAŁSZ
14	Fuel benchmark sub-installation, CL			PRAWDA
15	Fuel benchmark sub-installation, non-CL			FAŁSZ
	Process emissions sub-installation, CL			PRAWDA
17	Process emissions sub-installation, non-CL			FAŁSZ

/ List of technical connections

(a) Please enter here the information relevant for identifying technical connections to your installation:

This information is needed by the competent authority for ensuring consistency of the data provided, and for avoiding double counting of allocation data. Only those cases are relevant, where either measurable heat, waste gases or "transferred CO2" as defined by the Monitoring and Reporting Regulation are transferred. "Import" here means that something enters the boundaries of the installation to which this report refers, "export" means something leaving those boundaries. Material and/or energy flows between sub-installations are not relevant, with the exception of heat stemming from nitric acid production.

In the column "Type of entity" the following options can be selected:

- Installation covered by ETS
- Installation outside ETS
- Installation producing Nitric Acid
- Heat distribution network

Special case: Nitric acid production:

- Please select this option for identifying that your installation uses heat from nitric acid production.
- Please list this fact even if the nitric acid production is part of your own installation, not only if your installation is connected to such installation.
- This information is relevant for the heat balance (sheet "E_EnergyFlows", section II)

Type of connection options are:

- Measurable heat
- Waste gas
- Transferred CO2
- Intermediate products covered by product benchmarks (Sections 1.6 and 3.1(I) of Annex IV of the FAR)

Flow direction options are (perspective of the installation to which this report refers):

- Import (to this installation)
- Export (from this installation)

No.	Name of installation or entity	Type of entity	Type of connection	Flow direction
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

(b) Please enter here further information regarding those connected installations, if relevant:

Installation ID is mandatory if the connected installation is covered by the EU ETS, and if it has already been covered by the EU ETS before 30 June 2019 for the first allocation period, and before 30 June 2024 for the second allocation period.

	Installation ID used in			
No.	Registry	Name of contact person	email address	phone number
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

For entities not covered by the EU ETS, contact details are mandatory, but the Registry ID is not required.

<<< Click here to proceed to next sheet >>>

B+C Annual Emissions Data	Navigation area:	Table of contents	Previous sheet	Next sheet	Summary			
B+C Annual Emissions Data	Top of sheet	Source streams (excl. PFC)	PFC source streams	Emission Sources (CEMS)	Fall-back			
2014						2014		
B+C Sheet "Annual Emissions Data" for the Year: 2014								
I General guidance for	or source stream data							
	detailed source stream data generally to be are are optional and only provide annual total emissions			PRAWDA				
Please continue with the	next points below							
II Source streams and								
The tables below are identical t	to sheet "Accounting" in the Annual Emissions Report te	nplate provided by the Commission.						

You can therefore copy data for each able from the Annual Emissions Report template without further ambies and also find further guidance there. If the Commission's emplate in norused in your Member State, or you prefer to enter date menually, each table contains example due at the top (while fields). Reference and their an explorations are used in this Annual Therefore, section is earlier and the Variant to the contains example due at the top (while fields).

Source Streams (excluding PFC emissions)

Ex. Fall-b

		, in the second s	nissions)											_													_
Image: Mark Mark <th></th> <th></th> <th></th> <th></th> <th></th> <th>C-Content</th> <th></th> <th></th> <th>Biomass</th> <th></th> <th>non-sust. non-sust. conc.</th> <th>G hourly GHG hours</th> <th>s operating</th> <th>Flue gas (average),</th> <th>Flue gas</th> <th>Annual Ar Flue gas amount of amo</th> <th>unual GWP</th> <th></th> <th></th> <th></th> <th>E</th> <th>CF4 C missions (t Emiss</th> <th>sions (t GWP (CF4)</th> <th>GWP (C2F6) Em</th> <th>CF4 C2F6 hissions (t Emissions (t Collection</th> <th>CO2e fossil CO2e n</th> <th>Energy content</th>						C-Content			Biomass		non-sust. non-sust. conc.	G hourly GHG hours	s operating	Flue gas (average),	Flue gas	Annual Ar Flue gas amount of amo	unual GWP				E	CF4 C missions (t Emiss	sions (t GWP (CF4)	GWP (C2F6) Em	CF4 C2F6 hissions (t Emissions (t Collection	CO2e fossil CO2e n	Energy content
	Source stream nan tion Heavy fuel oil	name	Activity Data AD Unit 252 000,00 t	45,00 GJ/t 73,00	tC02/TJ	nt Unit	Oxid.factor OxF Unit 100,00 %	Conv.factor	ConvF Unit content % 0,00	BioC Unit %	0,00 %	conc. Unit operatin	ing Unit	(average) Unit	(total)	(total), Unit GHG GH	5 Unit (tCO2e/t)	A: Frequency A: Duration	A: SEF(CF4) B: AEO	B:CE B:C	WC F(C2F6)	CF4) Ci	2F6) (tCO2e/t)	(tCO2e/t)	CO2e) CO2e) efficiency, %	(t) CO2e bio (t) sust. bio 827 820,0 0,0 0,0	o (t) (tossil), TJ 11 340,00
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B+C Annual Emissions Data Nations 2015 B+C Sheet "Annual Emissi General guidance for sou	o of sheet	Source streams (excl. PFC)			Summary	
B+C Sheet "Annual Emiss			PFC source streams	Emission Sources (CEMS)	Fall-back	
						2015
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	ed source stream data generally to be optional and only provide annual total amissions i			PRAWDA		
II Source streams and emis	ission sources					
The tables below are identical to sheet	t "Accounting" in the Annual Emissions Report ten	splate provided by the Commission.				

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Source Streams (excluding PFC emissions)

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GWP (CF4) (tCO2e/t)	GWP (C2F6) (tCO2elt)	CF4 Emissions (t CO2e)	Collection efficiency, %		CO2e bio (t)	CO2e non-		Energy content (bio), TJ
				2 850,0	340,0	0,0	45	5

ReC Annual Emissions Data	Navigation area:	Table of contents	Previous sheet	Next sheet	Summary	
B+C Annual Emissions Data	Top of sheet	Source streams (excl. PFC)	PFC source streams	Emission Sources (CEMS)	Fall-back	
2016						2016
	nissions Data" for the Year:			2016		
I General guidance for	or source stream data					
	letailed source stream data generally to be re are optional and only provide annual total amissions			PRAWDA		
II Source streams and						
	emission sources o sheet "Accounting" in the Annual Emissions Report to	mobile any olded by the Commission				

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Source Streams (excluding PFC emissions)

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You can therefore copy data for each table from the Annual Emissions Report template eithour further entries and also find further guidance there. If the Commission's template is not used in your Membar State, or you prefer to enter data manually, each table contains example data at the top (while fields).

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ReC Annual Emissions Data	Navigation area:	Table of contents	Previous sheet	Next sheet	Summary	
B+C Annual Emissions Data	Top of sheet	Source streams (excl. PFC)	PFC source streams	Emission Sources (CEMS)	Fall-back	
2018						2018
B+C Sheet "Annual Er	missions Data" for the Year:			2018		
I General guidance fe	or source stream data					
	detailed source stream data generally to be are are optional and only provide annual total emissions			PRAWDA		
II Source streams and	d emission sources					

You can therefore copy data for each table from the Annual Emissions Report template eithour further entries and also find further guidance there. If the Commission's template is not used in your Membar State, or you prefer to enter data manually, each table contains example data at the top (while fields).

Source Streams (excluding PFC emissions)

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Name Aching Data North NCV NCV NCV NCV <																											
Name Achiny Data AD Unit MCV MCV Unit EF EF Unit Contant Unit Oxid Latary Or Unit Conductor Com/Unit Sec Unit Boc Unit Boc Unit Boc Unit Sec Units Sec Unit Sec Unit Sec Unit Sec Units Sec Unit Sec Unit						C-Content			Biomass		non-sust, non-sust, conc	G hourly GHG hours	s operating	Flue gas Flue gas (average)	Flue gas	Annual An Flue gas amount of amo	nual unt of GWP					CF4 C21 missions (t Emissi	2F6 sions (t GWP (CE4)	GWP (C2F6) Emi	CF4 C2F6 ssions (t Emissions (t Collection	CO2e fossil	energy on- content
	Namo		Activity Data AD Unit	NCV NCV Unit EF	EF Unit C-Conte	ent Unit	Oxid.factor OxF Unit	Conv.factor	ConvF Unit content	BioC Unit	BioC BioC Unit Average	conc. Unit operation	ing Unit	(average) Unit	(total)	(total), Unit GHG GHG	G Unit (tCO2e/t)	A: Frequency A: Duration	A: SEF(CF4) B: AEO	B:CE B:	DVC F(C2F6)	CF4) C2F	(tCO2e/t)	(tCO2e/t) C	CO2e) CO2e) efficiency, %	(t) CO2e bio (t) sust. bi	o (t) (fossil), T

GWP (CF4) (tC02e/t)	GWP (C2F6) (tC02e/t)	CF4 Emissions (t CO2e)	C2F6 Emissions (t CO2e)	Collection efficiency, %		CO2e bio (t)	CO2e non-		Energy content (bio), TJ
					2 850,0	340,0	0,0	45	5

D. Sheet "Emissions" - ATTRIBUTION OF EMISSIONS

Total Direct Greenhouse Gas Emissions and Energy Input from Fuels

This section contains the summary of the emissions and energy content data from the five sheets "B+C_EmissionsY1 to Y5". In cases where the Member State allows the data to be entered aggregated instead of filling in those five sheets, the relevant entries must be made in section 2 here below.

For further information see general notes at the beginning of sheet B.

1 Automatically calculated data at installation level

Data displayed here are the automatic summary from data entered in sheets B+C.

Installation level data:	Unit	2014	2015	2016	2017	2018
Total CO2 emissions	t CO2 / year					
Biomass emissions	t CO2 / year					
Total N2O emissions	t CO2e/year					
Total PFC emissions	t CO2e/year					
Sum of direct emissions	t CO2e/year					
Transferred CO2 exported	t CO2 / year					
Total direct emissions of the installation	t CO2e/year					
Total energy input from fuels	TJ / year					

2 Input if Member State allows aggregated reporting at installation level

If according to section B.I. you are allowed to enter emission totals instead of detailed source stream data, then input in this section is mandatory.

In such case, please enter below in line with the principles of the M&R Regulation:

- Total CO2 emissions: the verified CO2 emissions from source streams and emission sources including from any non-sustainable biomass

- Biomass emissions: emissions from biomass, either sustainable or for which sustainability criteria do not apply, as if they were non-zero rated

- Total N2O emissions from emission sources
- Total PFC emissions from primary aluminium production
- Transferred amount of CO2 exported from the installation, reported as negative values
- Total energy input from fuels including from biomass and waste gases

Installation level data:	Unit	2014	2015	2016	2017	2018
Total CO2 emissions	t CO2 / year					
Biomass emissions	t CO2 / year					
Total N2O emissions	t CO2e/year					
Total PFC emissions	t CO2e/year					
Sum of direct emissions	t CO2e/year					
Transferred CO2 exported	t CO2 / year					
Total direct emissions of the installation	t CO2e/year					
Total energy input from fuels	TJ / year					

3 Result of installation level data for use in sheets "D_Emissions" and "E_EnergyFlows":

Where data is displayed under points 1 AND 2, the data of point 2 will be used, because no completeness check for data in sheets B+C can be performed.

Such conflicting values are highlighted with red figures in the table below.

Installation level data:	Unit	2014	2015	2016	2017	2018
Total CO2 emissions	t CO2 / year					
Biomass emissions	t CO2 / year					
Total N2O emissions	t CO2e/year					
Total PFC emissions	t CO2e/year					
Sum of direct emissions	t CO2e/year					
Transferred CO2 exported	t CO2 / year					
Total direct emissions of the installation	t CO2e/year					
Total energy input from fuels	TJ / year					

II Attribution of emissions to sub-installations

1 Total emissions at installation level (taken from section D.I.3)

Installation level data:	Unit	2014	2015	2016	2017	2018
Total direct emission of the installation	t CO2e/year					

2 Attribution to sub-installations

The attribution of emissions to sub-installations has to be done in sheets F and G for each sub-installation.

A summary table of attributed emissions can be found in the summary sheet (see link below).

The attribution of emissions to sub-installations can be found in the summary sheet. (K.III.2)

III Cogeneration tool

Are combined heat and power (CHP) units relevant?

This is a tool for assigning fuels and emissions of CHPs for the purpose of updating the benchmark values pursuant to Annex VII, chapter 8.

Please enter "false" here if there is no CHP relevant at your installation. If this is the case the whole tool is not relevant and will be greyed out.

Please note that emissions associated with imported heat might also be relevant for certain sub-installations. Where this imported heat is produced from CHPs in other installations, this tool might be relevant too, if further information on the relevant data from the supplier is known.

This tool exists twofold in this template and each tool should only be used for one CHP. If more CHPs are relevant, a separate template might be used to provide relevant information.

Periods during which the CHP is operated in heat-only or electricity-only generation mode (i.e. periods during which only one of the two products was produced) should be excluded and assignment of fuels and emissions should be calculated separately in accordance with the provisions in sections 10.1.2 and 10.1.3 of Annex VII.

1 Tool for calculating the emissions attributable to heat production in combined heat and power units (CHP)

(a) Total amount of fuel input into CHP units

	riedse enter nere the annual der input into the orn- ann.						
		Unit	2014	2015	2016	2017	2018
	Fuel input into CHP	TJ / year					
(b)	Heat output from CHP						
	This is the total amount of heat produced by the CHP.						
		Unit	2014	2015	2016	2017	2018
	Heat output from CHP	TJ / year					
(c)	Electricity output CHP						
• •	This is the total amount of electricity (or mechanical energy,	where applicable) produ	iced by the CHP.				
		Unit	2014	2015	2016	2017	2018
	Electricity output from CHP	MWh / year					
	Electricity output from CHP	TJ / year					
(d)	Total emissions from CHP						
(,	Values should distinguish between emissions from fuel input	t and from flue gas clear	ning.				
		Unit	2014	2015	2016	2017	2018
	From fuel input to CHP	t CO2 / year					
	From flue gas cleaning	t CO2 / year					

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otal emissions	t CO2 / year					
efault efficiencies:		Heat:	55,00%		Electricity:	25,00%
		noal.	55,0070		Lioounony.	20,00 /0
fficiencies for heat and electricity hese values are dimensionless and automatically calcu	lated from inputs in (a) to (c) ah	01/8				
no values are entered there but total emissions under (. Please note that this	is only allowed if you	u provide evidence th	at the determina
fficiencies is technically not feasible or would incur unre						
	Unit	2014	2015	2016	2017	2018
leat production	-					2010
lectricity production	-					
		•		•		
	a stand-alone boiler, and the re	ference efficiency of ele	ctricity production wit	hout cogeneration.		
					pplication of the corre	ction factors for
Annex III and avoided grid losses in Annex IV to that R	egulation. The Regulation can	be downloaded under th	e following link:			
ttps://eur-lex.europa.eu/eli/reg_del/2015/2402	<u>2/oi</u>					
efault efficiencies below are for natural gas CHPs produ	icing electricity and hot water.					_
	Unit	2014	2015	2016	2017	2018
leat production		90,00%	90,00%		92,00%	92,00%
lectricity production	-	52,50%	52,50%	53,00%	53,00%	53,00%
missions attributable to heat production	rom CHP					
his is the final result of this tool. The values displayed h	ere should be entered in sheets	s F or G for the attributa	ble emissions for the	appropriate sub-insta	llation.	
				tor for any measural	ole heat imported.	
alculation results can only be considered correct if com	1	1				
	Unit	2014	2015	2016	2017	2018
mission factor, heat	t CO2 / TJ					
	ere should be entered in releva					
	Unit	2014	2015	2016	2017	2018
uel input for heat	TJ / year					
uel input for electricity	TJ / year					
an extended and the construction of the second	de te hert vor to st	de acestra da	at an direct			
or calculating the emissions attributat	bie to neat production	in combined he	at and power t	INITS (CHP)		
etailed instructions for data entries in this	s tool can be found at th	ne first copy of thi	s tool. (D.III.1)			
otal amount of fuel input into CHP units						
and an	Unit	2014	2015	2016	2017	2018
uel input into CHP	TJ / year					
				÷		
leat output from CHP	Unit	2014	2015	2016	2017	2018
leat output from CHP		2014	2013	2010	2017	2010
· · · · · · · · · · · · · · · · · · ·	107 you					
lectricity output CHP	11-11 I	0044	0045	0040	0047	0040
leatricity output from CHP		2014	2015	2016	2017	2018
	IJ / year					
otal emissions from CHP		1		1	1	1
		2014	2015	2016	2017	2018
	t CO2 / year					
efault efficiencies:		Heat:	55,00%		Electricity:	25,00%
fficiencies for heat and electricity						
	Unit	2014	2015	2016	2017	2018
leat production	-					
lectricity production	-					
eference efficiencies						
	Unit	2014	2015	2016	2017	2018
leat production		90,00%	90,00%	92,00%	92,00%	92,00%
lectricity production	-	52,50%	52,50%	53,00%	53,00%	53,00%
	rom CHP					
		2014	2015	2016	2017	2018
missions attributable to heat output		2017	2010	2010	2017	2010
mission factor, heat	t CO2 / TJ					
asi mput attributable to neat and electrici		2014	2015	2016	2017	2018
uel input for heat		2014	2013	2010	2017	2018
	ij/year					
	eference efficiencies hese are the reference efficiency for heat production in or the reference efficiencies the appropriate fuel-specific Annex III and avoided grid losses in Annex IV to that R ttps://eur-lex.europa.eu/eli/reg_del/2015/2402 efault efficiencies below are for natural gas CHPs produ- eat production lectricity production missions attributable to heat production f in is the final result of this tool. The values displayed h resumple, this may include attributable emissions to b alculation results can only be considered correct if comp missions attributable to heat output mission factor, heat uel input attributable to heat and electricity for calculating the emissions attributable etailed instructions for data entries in this total amount of fuel input into CHP units uel input for heat uel input for CHP eat output from CHP lectricity output from CHP lectricity output CHP total emissions efault efficiencies: fficiencies for heat and electricity rom fuel input to CHP rom fuel input t	lectricity production - eference efficiencies - hese are the reference efficiency for heat production in a stand-alone boiler, and the reprinter of the reference efficiencies the appropriate fuel-specific values from the Commission an Annex II and avoided grid losses in Annex IV to that Regulation. The Regulation can an ttps://eur-lex.europa.eu/eli/reg_del/2015/2402/oi/electricity and hot water. eat production - lectricity production - missions attributable to heat production from CHP - his is the final result of this tool. The values displayed here should be entered in sheets - missions attributable to heat output t CO2 / year mission factor, heat t CO2 / TJ uel input for heat TJ / year uel input for heat Unit uel input for CHP Unit uel input for CHP Unit uel input to CHP Unit eat output from CHP Unit eat output fr	lectricity production - eference efficiencies bese are the relevance efficiency for heat production in a stand-alone boller, and the reference efficiency of ele tr the artennce efficiencies the appropriate luer-specific values from the Commission Delegated Regulation (E Annex II and avoided grid losses in Annex IV to this Regulation. The Regulation can be downloaded under th ths://burl-ke.europa.eu/ell/Prog. del/2015/2002/01 efficiencies below are for natural gas CHPs producing electricity and hot water. Unit 2014 eat production - 90.00% factor this/burl-burls bolow are for natural gas CHPs producing electricity and hot water. Unit 2014 eat production - 90.00% factor this/burl-burls bolow are for natural gas CHPs producing electricity and hot water. Unit 2014 eat production - 90.00% factor this/burl-burl-burl-burl-burl-burl-burl-burl-	lectricity production - - - - elerence efficiencies the reference efficiency of electricity productorn with the therence efficiency of electricity productorn with the reference efficiency of electricity productorn with the reference efficiencies the appropriate fue-specific values from the Commission Delegated Regulation (EU) 2015/24/22 should Arrest II and avoided under the following link: they, fue-twx, europa, eu/el/text, eur	learnicely production - - - - efference efficiencies - - - - - efference efficiencies -	learning production

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2

(d)	Total amount of process emissions before sub This amount must be consistent with the carbon leakage statu			hnically usable e	energy content:			
	This amount must be consistent with the carbon reakage state	Unit	2014	2015	2016	2017	2018	
	Uncorrected process emissions	t CO2e/year						
(e)	Estimation of waste gas emissions Optionally, and for the purpose of consistency checks only, pla		ation of the quantity of	emissions relating to	the waste gas used o	or exported.		
	This amount must be consistent with the amount of waste gas Emissions from waste gases	Under point (f) below.	2014	2015	2016	2017	2018	
	outside product benchmarks	t CO2e/year		10.0	2010	2011	20.0	
(f)	Amount of waste gas produced outside produced outside produced This amount must be consistent with the carbon leakage statu			ncluding for exp	orts:			
	Only waste gas which is used for the production of heat or ele You may choose to report either as tonnes or as 1000 Nm3 (c							
	Amount of waste gas per year	Unit	2014	2015	2016	2017	2018	
	outside product benchmarks	1000Nm3/year						
(g)	Net calorific value of the waste gas You may choose to report either as GJ/t or as GJ/1000 Nm3.	The units must be sens	istant with these for t	ha amaunta abaua				
	Tou may choose to report entier as GJ/ or as GJ/ 1000 Mins.	Unit	2014	2015	2016	2017	2018	
	Net calorific value	GJ/1000Nm3						
(h)	Necessary assumptions:				======			05 00
	Reference efficiency for production of electricity: Emissions factor for natural gas:	56.1	t CO2 / TJ	sing natural gas:	52,50%	l	using waste gas:	35,00%
(i)	Emissions to be subtracted for taking into acc			v content:				
.,	These amounts are automatically calculated based on the figure	ires input above. The f	ormula is described in	the guidance docum				
	Deduction for waste gases outside product benchmarks	Unit t CO2 / year	2014	2015	2016	2017	2018	
	outside product benonmarks							
(j)	Process emissions calculated taking into acco This is the final result of this tool. The values displayed he				sions sub-installatio			
	Calculation results can only be considered correct if complete				Sions Sub-instantia			
	In case the result is negative, it is set to zero.							
	Result of waste gas tool:	t CO2 / year	2014	2015	2016	2017	2018	
	recourt of where gas took	1002/ 100						
Тоо	l for calculating the amount of process emis	ssions if waste	gases are prod	luced outside p	oroduct benchr	narks		
Тоо	for calculating the amount of process emis					narks		
		ol can be found a	t the first copy o			narks		
(a)	Detailed instructions for data entries in this too	<mark>ol can be found a</mark> sub-installation o	t the first copy o f this type:			narks		
(a) (b)	Detailed instructions for data entries in this too This section relates to the process emissions	<mark>ol can be found a</mark> sub-installation o	t the first copy o f this type:			narks		
(a) (b)	Detailed instructions for data entries in this to This section relates to the process emissions Please confirm if waste gases are relevant for	<mark>ol can be found a</mark> sub-installation o	t the first copy o f this type:			narks		
(a) (b)	Detailed instructions for data entries in this to This section relates to the process emissions Please confirm if waste gases are relevant for	<mark>ol can be found a</mark> sub-installation o	t the first copy o f this type:			narks		
(a) (b) (c)	Detailed instructions for data entries in this to This section relates to the process emissions Please confirm if waste gases are relevant for	ol can be found a sub-installation o this sub-installati	f the first copy of f this type: ion:	f this tool. (D.IV	(<u>1)</u>	narks		
(a) (b) (c)	Detailed instructions for data entries in this too This section relates to the process emissions a Please confirm if waste gases are relevant for Type of waste gas:	ol can be found a sub-installation o this sub-installati bit sub-installati tracting an equiv Unit	f the first copy of f this type: ion:	f this tool. (D.IV	(<u>1)</u>	narks	2018	
(a) (b) (c) (d)	Detailed instructions for data entries in this too This section relates to the process emissions a Please confirm if waste gases are relevant for Type of waste gas: Total amount of process emissions before sub Uncorrected process emissions	ol can be found a sub-installation o this sub-installati	t the first copy of f this type: ion: alent for the tecl	f this tool. (D.IV	.1)		2018	
(a) (b) (c) (d)	Detailed instructions for data entries in this to This section relates to the process emissions a Please confirm if waste gases are relevant for Type of waste gas: Total amount of process emissions before sub Uncorrected process emissions Estimation of waste gas emissions	ol can be found a sub-installation o this sub-installati tracting an equiv Unit troc2e/year	t the first copy o f this type: ion: alent for the tecl 2014	hnically usable of 2015	.1) energy content: 2016	2017		
(a) (b) (c) (d)	Detailed instructions for data entries in this too This section relates to the process emissions a Please confirm if waste gases are relevant for Type of waste gas: Total amount of process emissions before sub Uncorrected process emissions	ol can be found a sub-installation o this sub-installati this sub-installati unit tracting an equiv Unit t CO2e/year Unit	t the first copy of f this type: ion: alent for the tecl	f this tool. (D.IV	.1)		2018	
(a) (b) (c) (d)	Detailed instructions for data entries in this too This section relates to the process emissions a Please confirm if waste gases are relevant for Type of waste gas: Total amount of process emissions before sub Uncorrected process emissions Estimation of waste gas emissions Emissions from waste gases outside product benchmarks	ol can be found a sub-installation o this sub-installati this sub-installati utracting an equiv Unit t CO2e/year Unit t CO2e/year	t the first copy o f this type: ion: alent for the tecl 2014	hnically usable e	.1) energy content: 2016 2016	2017		
(a) (b) (c) (d)	Detailed instructions for data entries in this too This section relates to the process emissions a Please confirm if waste gases are relevant for Type of waste gas: Total amount of process emissions before sub Uncorrected process emissions Estimation of waste gas emissions Emissions from waste gases outside product benchmarks Amount of waste gas produced outside product	ol can be found a sub-installation o this sub-installati this sub-installati utracting an equiv Unit t CO2e/year t CO2e/year t benchmark sub	t the first copy o f this type: ion: alent for the tecl 2014	hnically usable e	.1) energy content: 2016 2016	2017		
(a) (b) (c) (d)	Detailed instructions for data entries in this too This section relates to the process emissions a Please confirm if waste gases are relevant for Type of waste gas: Total amount of process emissions before sub Uncorrected process emissions Estimation of waste gas emissions Emissions from waste gases outside product benchmarks	ol can be found a sub-installation o this sub-installati this sub-installati utracting an equiv Unit t CO2e/year Unit t CO2e/year	t the first copy o f this type: ion: alent for the tecl 2014 	hnically usable e 2015 2015 cluding for exp	.1) energy content: 2016 2016 orts:	2017 2017	2018	
(a) (b) (c) (d) (e) (f)	Detailed instructions for data entries in this too This section relates to the process emissions a Please confirm if waste gases are relevant for Type of waste gas: Total amount of process emissions before sub Uncorrected process emissions Estimation of waste gas emissions Emissions from waste gases outside product benchmarks Amount of waste gas produced outside produc Amount of waste gas produced outside produc	ol can be found a sub-installation o this sub-installation tracting an equiv Unit t CO2e/year t CO2e/year t CO2e/year ct benchmark sut Unit 1000Nm3/year	t the first copy o f this type: ion: alent for the tecl 2014 2014 installations, ir 2014	hnically usable of 2015	.1) energy content: 2016 2016 orts: 2016		2018	
(a) (b) (c) (d) (e) (f)	Detailed instructions for data entries in this tor This section relates to the process emissions a Please confirm if waste gases are relevant for Type of waste gas:	ol can be found a sub-installation o this sub-installation whether the sub-installation the sub-installation the sub-installation the sub-installation the sub-installation the sub-installation Unit Unit Unit	t the first copy o f this type: ion: alent for the tecl 2014 	hnically usable e 2015 2015 cluding for exp	.1) energy content: 2016 2016 orts:	2017 2017	2018	
(a) (b) (c) (d) (e) (f)	Detailed instructions for data entries in this tor This section relates to the process emissions a Please confirm if waste gases are relevant for Type of waste gas:	ol can be found a sub-installation o this sub-installation tracting an equiv Unit t CO2e/year t CO2e/year t CO2e/year ct benchmark sut Unit 1000Nm3/year	t the first copy o f this type: ion: alent for the tecl 2014 2014 installations, ir 2014	hnically usable of 2015	.1) energy content: 2016 2016 orts: 2016		2018	
(a) (b) (c) (d) (e) (f)	Detailed instructions for data entries in this tor This section relates to the process emissions a Please confirm if waste gases are relevant for Type of waste gas:	ol can be found a sub-installation o this sub-installation whether the sub-installation the sub-installation the sub-installation the sub-installation the sub-installation the sub-installation Unit Unit Unit	t the first copy o f this type: ion: alent for the tecl 2014 installations, ir 2014 2014	hnically usable e 2015 2015 2015 2015 2015 2015	.1) energy content: 2016 orts: 2016 2016	2017 2017 2017 2017 2017	2018 2018 2018	25.00%
(a) (b) (c) (d) (e) (f)	Detailed instructions for data entries in this tor This section relates to the process emissions a Please confirm if waste gases are relevant for Type of waste gas:	ol can be found a sub-installation o this sub-installation this sub-installation this sub-installation this sub-installation this sub-installation this sub-installation Unit t CO2e/year Unit t CO2e/year t benchmark sub Unit 1000Nm3/year Unit GJ/1000Nm3	t the first copy o f this type: ion: alent for the tecl 2014 installations, ir 2014 2014	hnically usable of 2015	.1) energy content: 2016 2016 orts: 2016	2017 2017 2017 2017 2017	2018	35,00%
(a) (b) (c) (d) (e) (f)	Detailed instructions for data entries in this tor This section relates to the process emissions and the process emissions are relevant for an another the process emissions are relevant for a section of waste gases Total amount of process emissions Estimation of waste gases Outside product benchmarks Amount of waste gas produced outside product benchmarks Amount of waste gas prevear outside product benchmarks Net calorific value of the waste gas Net calorific value Necessary assumptions: Reference efficiency for production of electricity:	ol can be found a sub-installation o this sub-installation this sub-installation this sub-installation this sub-installation this sub-installation Unit t CO2e/year Unit 1000Nm3/year Unit GJ/1000Nm3	t the first copy o f this type: ion: alent for the tecl 2014 -installations, ir 2014 -installations, u 2014 t CO2 / TJ	hnically usable e 2015 2015 cluding for exp 2015 2015 2015	.1) energy content: 2016 orts: 2016 2016	2017 2017 2017 2017 2017	2018 2018 2018	35,00%
(a) (b) (c) (d) (e) (f) (g) (h)	Detailed instructions for data entries in this tor This section relates to the process emissions and the process emissions are relevant for an another the process emissions are relevant for a section of waste gases Total amount of process emissions Estimation of waste gases Outside product benchmarks Amount of waste gas produced outside product benchmarks Amount of waste gas produced outside product benchmarks Net calorific value of the waste gas Net calorific value Necessary assumptions: Reference efficiency for production of electricity: Emissions factor for natural gas:	ol can be found a sub-installation o this sub-installation this sub-installation this sub-installation this sub-installation this sub-installation Unit t CO2e/year Unit 1000Nm3/year Unit GJ/1000Nm3	t the first copy o f this type: ion: alent for the tecl 2014 -installations, ir 2014 -installations, u 2014 t CO2 / TJ	hnically usable e 2015 2015 cluding for exp 2015 2015 2015	.1) energy content: 2016 orts: 2016 2016	2017 2017 2017 2017 2017	2018 2018 2018	35,00%
(a) (b) (c) (d) (e) (f) (g) (h)	Detailed instructions for data entries in this tor This section relates to the process emissions and Please confirm if waste gases are relevant for Type of waste gas: Image: the process emissions before sub- Uncorrected process emissions Estimation of waste gases outside product benchmarks Amount of waste gas per year outside product benchmarks Net calorific value Net calorific value Necessary assumptions: Reference efficiency for production of electricity: Emissions to be subtracted for taking into acce	ol can be found a sub-installation o this sub-installation this sub-installation utic color of the sub-installation unit t color of the sub-installation t color of the sub-installation t color of the sub-installation t color of the sub-installation unit to color of the sub-installation of the sub-installation of the sub-installation to color of the sub-installation of the sub-installatio	t the first copy o f this type: ion: alent for the tecl 2014 -installations, ir 2014 -installations, ir 2014 t CO2 / TJ Ily usable energ	hnically usable e 2015 2015 cluding for exp 2015 2015 2015 2015 2015 2015	.1) energy content: 2016 2016 2016 2016 52,50%	2017 2017 2017 2017 2017	2018 2018 2018 using waste gas:	35,00%
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verview and split into	use categories						
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	, ,	Unit	2014	2015	2016	2017	2018
Total energy input fror	m fuels	TJ / year					
b) Input method:		· · ·	•				
You can choose the method	d for entering the values in the t	table below under point	t (c), Available ontio	ns are: "Absolute val	ues" (enter TJ/vear)	, or "percentages".	
	ole cases, where most entries w					, or percontageo .	
c) Distribution of fuel in			time an elementia			(4)	
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All heat data should refer to "net amount of measurable heat" (i.e. heat content of heat flow to user minus heat content of the return flow).

Outline of the calculation approach used:

I both types of heat input are relevant, "eligible" (self-produced and/or imported form ETS installations) and "non-eligible" (import from non-ETS or produced from a Nitric acid sub-installation), AND if both types of heat use take place, i.e. "eligible" (internal use and/or export to non-ETS) and "non-eligible" (export to ETS-installations), it is necessary to earmark the eligible and non-eligible cases.

A hierarchy of approaches is proposed for this earmarking:

If the heat amounts can be clearly earmarked (because of the heat grid connections being clearly defined, or because of the steam pressure levels etc.), eligible and non-eligible heat amounts shall be reported according to this real situation.

- If this is not feasible, all uses shall be weighted according to the ratio of inputs (ETS input : total input) as defined above.

- For the purpose of this template, the following step-by-step approach is used:

 - A separate balance for the consumption of the 'eligible' and 'non-eligible' heat is calculated.
 For electricity production, heat consumption is split according to the ratio displayed under point (f), unless the amount of heat from non-eligible sources is manually input under (g).iii.
 - For product benchmarks the total amount of measured heat is asked under (g) below. The amount of "non-eligible" heat is taken as sum of inputs in sheet "F ProductBM", section (f).iii of each subinstallation (shown here below under (i).xii).
 - Heat exports to installations covered by the ETS (section (i) below) must always be considered as heat from eligible sources, because the consumer of the heat will not have the information about eligibility of the upstream produced heat. Thus, for avoiding double counting, the heat must be deducted from the eligible amount in this installation. The amount is to be capped by the total available "eligible" heat of the installation.
 - From the remaining amount of measurable heat, it must be determined how much is consumed within the installation (except for electricity production and product benchmark sub-installations). The amount of "eligible" heat remaining at the end of the previous steps is the upper limit.
 - After these deductions of heat from the available amount, a new "eligibility ratio" is calculated (point (k)).
 - The remaining eligible amount can then be attributed to the both heat benchmark sub-installation

Heat Inputs

(a) Total net amount of measurable heat produced in the installation:

All heat data should refer to "net amount of measurable heat" (i.e. heat content of heat flow to user minus heat content of the return flow). Note that h

heat produced from nitric acid sub-installations has to	o be reported u	Inder point (c,) as "non-ETS im	port".
		1		

		Unit	2014	2015	2016	2017	2018			
	Measurable heat produced	TJ / year								
(b)	b) Measurable heat imported from installations covered by the EU ETS: Installation names in the drop down list are taken from Section A.IV. Therefore you must ensure that you have entered complete data there.									
	Name of installation	Unit	2014	2015	2016	2017	2018			
i.		TJ / year								
ii.		TJ / year								
iii		T.I / vear								

iv.	Sub-total	TJ / year					
(c)	Measurable heat imported from installations an	nd entities n	ot covered by t	he EU ETS (no	t eligible for he	at benchmark)	:
	This includes the nitric acid producing sub-installations (select	"Within installatio	on" as name of instal	llation, if the nitric ad	cid production is part	of this installation).	
	Note that the data entered here is to be checked for double cou	inting with deduc	ctions under product	benchmark sub-inst	allations (see sheet	"F_ProductBM").	
	Name of installation or entity	Unit	2014	2015	2016	2017	2018

i.		TJ / year			
ii.		TJ / year			
iii.		TJ / year			
iv.	Sub-total	TJ / year			

(d) Measurable heat produced from electricity

	This includes heat from any electric pumps, electric boilers, etc. It is only contained here for completeness but not included in the balance below as this heat is non-eligible.						
		Unit	2014	2015	2016	2017	2018
	Heat from electricity	TJ / year					
(e)	Sum of measurable heat available at installa	tion (=a+b+c)					
	Total measurable heat	TJ / vear					

(f) Ratio of "ETS heat" to "Total heat"

ETS heat" is heat produced in the installation plus heat imported from ETS installations (=a+b).

Total heat is the ETS heat plus heat imported from non-ETS entities and installations (=a+b+c).

Heat input ratio (a+b) / (a+b+c): %

Heat not eligible for sub-installations with heat benchmark

Refore the amou nt of heat falling under the heat benchmark sub-installations can be quantified, the amount not eligible for this purpose has to be identified. In a first step the non-eligible amounts for heat use within the installation are considered.

This is the amount of heat used for electricity production and heat consumed within product benchmark sub-installations

(g) Measurable heat consumed for electricity production within the installation (not eligible for heat benchmark):

As default, it is assumed that the whole amount of heat used for electricity production is split between eligible and non-eligible inputs using the ratio calculated under (f). However, if more precise information is available (e.g. because steam from different sources can be distinguished due to different pressure levels, etc), you can enter alternative amounts of "non-

		Unit	2014	2015	2016	2017	2018
i.	Heat used for electricity production	TJ / year					
ii.	Amount of heat from non-ETS sources	TJ / year					
iii.	Manual override of (ii)	TJ / year					

(h) Measurable heat consumed for product benchmark sub-installations within the installation (not eligible for heat benchmark):

According to Article 21 of the FAR a CO2 equivalent for non-ETS heat imports is to be deducted from preliminary allocations sheet "F_ProductBM", section (d) of each sub-installation. r product benchmarks. The data needed for that correction is input in

Therefore here a plausibility check for that data is included.

		Unit	2014	2015	2016	2017	2018
i.		TJ / year					
ii.		TJ / year					
iii.		TJ / year					
iv.		TJ / year					
v.		TJ / year					
vi.		TJ / year					
vii.		TJ / year					
viii.		TJ / year					
ix.		TJ / year					
х.		TJ / year					
xi.	Sub-total	TJ / year					
	Values entered in sheet "F_ProductBM":						
xii.	Amount of heat from non-ETS sources	TJ / year					
	Plausibility check: Please make sure that you check this section again afte The best suggested approach for filling this section is to						ow.

Non-ETS heat entered in sheet "F_ProductBM" compared to total amount of heat for all product benchmarks

xiii. Point xii in relation to point xi:	%					
Non-ETS heat entered in sheet "F_Produc	ctBM" compared t	to total amount	of non-ETS he	at imports ente	red above und	er point (c):
xiv. Point xii in relation to point (c) above:	%					

Heat exported to ETS installations (not eligible for heat benchmark): (i)

This amount of heat is allocated to the consumer of the heat.

Name of installation	Unit	2014	2015	2016	2017	201
	TJ / year					
	TJ / year					
	TJ / year					
	TJ / year					
	TJ / year					
Total heat exported to ETS installations	TJ / vear					

Heat benchmark and district heating sub-installations:

(j) Sub-total: remaining total measurable heat, potentially belonging to heat benchmark sub-installations (=e-g-h-i):

		Unit	2014	2015	2016	2017	2018	
i.	Sub-total:	TJ / year						
	This amount can be split into "eligible" and "non-eligible" heat (according to their origin, see introduction to this section above).							
	Thereafter the factor determined under (e) is corrected t	aking into account the n	emainder of eligible	and non-eligible hea	t. This factor is used	l for point (m).		
	eligible by origin:	TJ / year						
iii.	non-eligible by origin:	TJ / year						
(k)	Eligibility ratio for the remaining heat cale	culated under (j):						
	corrected eligibility ratio (=(j).ii / (j).i):	%						
(I)	Net amount measurable heat consumed in the installation and eligible under heat benchmark: This is consumption within the installation excluding for purposes listed in points (g) and (h).							
	Heat consumed within the installation	TJ / year						

(m) Heat exported to installations or entities not covered by the EU ETS (e.g. district heating networks): Installation names in the drop down list are taken from Section A.IV. Therefore you must ensure that you have entered complete data th

Name of receiving entity or installation Unit 2016 2017 2014 2015 2018 TJ / year TJ / year TJ / year ii iii. iv. TJ / year TJ / year vi. Total heat exported to outside ETS: TJ / vear

(n) Heat losses (=j-l-m)

This table shows calculated heat losses (i.e. the amount of heat not covered by points g,h,k,l and m) for reasons of completeness of the heat balance

If negative values are displayed this means that the heat consumption levels entered above exceed the amount of heat available from production and imports.

i. H	leat losses (calculated)	Unit TJ / year	2014	2015	2016	2017	2018
	leat losses (fraction of heat available = e)	157year %					
_							
	otal amount of heat potentially part of th otal heat benchmark sub-installations:	e heat benchmark TJ / year	c or district hea	ating sub-instal	lations (=I+m):		
	inal result: Amount of heat attributable to		or district he	ting sub-instal	lations		
	his result is calculated as point (o) multiplied with th				lations		
Tł	he maximum allowed value is the eligible amount id	entified under point (j)	.11.				
<u></u>	leat eligible for heat benchmark sub-	Unit	2014	2015	2016	2017	2018
	nstallations	TJ / year					
_							
	Sub-installation split - Input method: You can choose the method for entering the values in the	e table below under poir	nt (r). Available opti	ons are: "Absolute va	alues" (enter TJ/vear), or "percentages".	
	or fast data entries in simple cases, where most entries						
	ttribution of heat sub-installations to Ca						
	lease identify here the amount of measurable heat whit leat benchmark sub-installation "CL" (exposed to a sign						
	ntities but not for district heating) and district heating su				in icanage nak, which	in includes near expe	
Tł	he data is automatically used again in sheet "G_Fall	-back". Therefore data	a entry is mandato	y here, if this tool i	s used.		
	leasurable heat	Unit	2014	2015	2016	2017	2018
	leat benchmark sub-installation, CL leat benchmark sub-installation, non-CL	% or TJ / year % or TJ / year					
	District heating sub-installation	% or TJ / year					
	igures for control:						
	leat benchmark sub-installation, CL leat benchmark sub-installation, non-CL	% or TJ / year					
	District heating sub-installation	% or TJ / year % or TJ / year					
_	e gas balance						
	lete balance of waste gases at the instance is mainly used for consistency checking betwee		de in the "waste ga	s tool" in section D	.IV and the sub-ins	tallation level waste	e gas balances in s
ere po	ossible sections below are automatically filled with	data entered in these s	sections.				
	are any waste gases produced or consum	ned in, imported to	o or exported f	rom this install	ation?		
	Please enter data in this section!		- 1				
	this question is set to "false", entries here are not relev				letie n		
	Vaste gases produced within the system aformation is taken from section F.(I).v. If relevant, you r				lation		
S	ub-installation	Unit	2014	2015	2016	2017	2018
.i		TJ / year					
ii ii.		TJ / year TJ / year					
iv.		TJ / year					
v		TJ / year					
vi /ii.		TJ / year TJ / year					
'iii.		TJ / year					
ix		TJ / year					
x. _{xi.} S	Sub-total	TJ / year TJ / year					
	Vaste gases produced outside the syster		product benc	nmark sub-inst	allation		
In	formation is taken from section D.IV. If relevant, you m	ust ensure that you have	e entered complete	data there.			
	lote that entries there might relate to waste gases produ				0040	0047	0040
	rom section D.IV. Vaste gas 1	Unit TJ / year	2014	2015	2016	2017	2018
ii. W	Vaste gas 2	TJ / year					
iii. S	Sub-total	TJ / year					
	oum of waste gases (=a+b)						
_	Vaste gases produced	TJ / year					
	Vaste gases imported from other installat Installation names in the drop down list are taken from S		ou must ensure the	t you have entered o	omplete data there		
	lease make sure that there is no double counting with (,		
		Unit	2014	2015	2016	2017	2018
N	lame of installation or entity						
<u>N</u> і.		TJ / year					
1. 1. 11.							
N i. ii. ii.	iame of installation of entity	TJ / year TJ / year					
N i. ii. ii. iv. <u>S</u>	iub-total Vaste gases exported to other installation	TJ / year TJ / year TJ / year TJ / year ns or entities					
i. ii. iii. iv. <u>S</u> iv. S iv. <u>S</u> in: b) W	iub-total Vaste gases exported to other installation stallation names in the drop down list are taken from S	TJ / year TJ / year TJ / year TJ / year ns or entities ection A.IV. Therefore y		t you have entered c	1		
i. ii. iii. iv. Si iv. Si iv. Si iv. Si iv. Si iv. Si iv. Si iv. Si iv. Si	iub-total Vaste gases exported to other installation	TJ / year TJ / year TJ / year TJ / year ns or entities ection A.IV. Therefore y Unit	ou must ensure tha		omplete data there. 2016	2017	2018
N ii. ii. v. S N n: N i.	iub-total Vaste gases exported to other installation stallation names in the drop down list are taken from S	TJ / year TJ / year TJ / year TJ / year ns or entities ection A.IV. Therefore y Unit TJ / year TJ / year		t you have entered c	1	2017	2018
N i i i N In N In N In In In In In In In In In In	iub-total Vaste gases exported to other installation stallation names in the drop down list are taken from S lame of installation or entity	TJ / year TJ / year TJ / year TJ / year ns or entities ection A.IV. Therefore y Unit TJ / year TJ / year TJ / year		t you have entered c	1	2017	2018
	iub-total Vaste gases exported to other installation stallation names in the drop down list are taken from S lame of installation or entity	TJ / year TJ / year TJ / year TJ / year ns or entities ection A.IV. Therefore y Unit TJ / year TJ / year TJ / year TJ / year		t you have entered c	1	2017	2018
I	Sub-total Vaste gases exported to other installation stallation names in the drop down list are taken from S lame of installation or entity sub-total sub-total	TJ / year TJ / year TJ / year TJ / year ns or entities ection A.IV. Therefore y Unit TJ / year TJ / year TJ / year TJ / year TJ / year		t you have entered c	1	2017	2018
N i iii v. S n n n N n N N N N N N N N N N N N N	Sub-total Vaste gases exported to other installation stallation names in the drop down list are taken from S lame of installation or entity sub-total sub-total sum of waste gases available at installation Vaste gases available	TJ / year TJ / year TJ / year ms or entities ection A.IV. Therefore y Unit TJ / year TJ / year TJ / year TJ / year TJ / year TJ / year	2014	t you have entered c	1	2017	2018
N i	Sub-total Vaste gases exported to other installation stallation names in the drop down list are taken from S lame of installation or entity sub-total sub-total	TJ / year TJ / year	2014 tallations	t you have entered a 2015	1	2017	2018
N i iii iv. S e) W Inh iv. S f) S W Inh Inh Inh Inh Inh Inh Inh Inh	Sub-total Vaste gases exported to other installation stallation names in the drop down list are taken from S lame of installation or entity sub-total sum of waste gases available at installation Vaste gases available Vaste gases consumed within product be	TJ / year TJ / year TJ / year ms or entities ection A.IV. Therefore y Unit TJ / year TJ / year mst ensure that you h Unit	2014 tallations	t you have entered a 2015	1	2017	2018
N i	Sub-total Vaste gases exported to other installation Istallation names in the drop down list are taken from S lame of installation or entity Sub-total Sum of waste gases available at installative Vaste gases consumed within product be Information is taken from section F.(1). viii. If relevant, you	TJ / year TJ / year TJ / year TJ / year ns or entities ection A.IV. Therefore y Unit TJ / year TJ / year IJ / year TJ / year Unit ust ensure that you h Unit TJ / year	2014 tallations have entered complete	t you have entered of 2015	2016		
N i iii iv. S e) W Inh iv. S f) S W Inh Inh Inh Inh Inh Inh Inh Inh	Sub-total Vaste gases exported to other installation Istallation names in the drop down list are taken from S lame of installation or entity Sub-total Sum of waste gases available at installative Vaste gases consumed within product be Information is taken from section F.(1). viii. If relevant, you	TJ / year TJ / year TJ / year ms or entities ection A.IV. Therefore y Unit TJ / year TJ / year mst ensure that you h Unit	2014 tallations have entered complete	t you have entered of 2015	2016		
N i	Sub-total Vaste gases exported to other installation Istallation names in the drop down list are taken from S lame of installation or entity Sub-total Sum of waste gases available at installative Vaste gases consumed within product be Information is taken from section F.(1). viii. If relevant, you	TJ / year TJ / year TJ / year TJ / year ns or entities ection A.IV. Therefore y Unit TJ / year TJ / year TJ / year TJ / year TJ / year TJ / year on (=c+d-e) TJ / year Must ensure that you h Unit TJ / year TJ / year TJ / year TJ / year	2014 tallations have entered complete	t you have entered of 2015	2016		
N i	Sub-total Vaste gases exported to other installation Istallation names in the drop down list are taken from S lame of installation or entity Sub-total Sum of waste gases available at installative Vaste gases consumed within product be Information is taken from section F.(1). viii. If relevant, you	TJ / year TJ / year	2014 tallations have entered complete	t you have entered of 2015	2016		
N i. iii. iii. S iii. S ii. S iii. S ii. S ii	Sub-total Vaste gases exported to other installation Istallation names in the drop down list are taken from S lame of installation or entity Sub-total Sum of waste gases available at installative Vaste gases consumed within product be Information is taken from section F.(1). viii. If relevant, you	TJ / year TJ / year TJ / year TJ / year ns or entities ection A. IV. Therefore y Unit TJ / year TJ / year	2014 tallations have entered complete	t you have entered of 2015	2016		
I. I. V. V. I. I. I. V. V. V. I. I. I. V.	Sub-total Vaste gases exported to other installation Istallation names in the drop down list are taken from S lame of installation or entity Sub-total Sum of waste gases available at installative Vaste gases consumed within product be Information is taken from section F.(1). viii. If relevant, you	TJ / year TJ / year	2014 tallations have entered complete	t you have entered of 2015	2016		
i.ii.ii.v.) i.ii.ii.v.) (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0	Sub-total Vaste gases exported to other installation Istallation names in the drop down list are taken from S lame of installation or entity Sub-total Sum of waste gases available at installative Vaste gases consumed within product be Information is taken from section F.(1). viii. If relevant, you	TJ / year TJ / year TJ / year TJ / year ns or entities ection A. /V. Therefore y Unit TJ / year TJ / year	2014 tallations have entered complete	t you have entered a 2015	2016		

(h) Waste gases consumed within fall-back sub-installations

Information is taken from corresponding entries in sheet "	G_Fall-back". If releva	nt, you must ensure	that you have enter	ed complete data the	ere.	
Type of fall-back sub-installation	Unit	2014	2015	2016	2017	201
i. Heat benchmark sub-installation, CL	TJ / year					
ii. Heat benchmark sub-installation, non-CL	TJ / year					
iii. District heating sub-installation, non-CL	TJ / year					
iv. Fuel benchmark sub-installation, CL	TJ / year					
v. Fuel benchmark sub-installation, non-CL	TJ / year					
vi. Sub-total	TJ / year					
i) Amount of waste gases consumed for the Waste gases for electricity	TJ / year	ectricity				
j) Amount of waste gases flared other than set For product BM sub-installations, information is taken auto		s in sheet "F Produc	tBM".			
For waste gases produced outside product BM sub-install	ations and flared for r	on-safety flaring nee	d to be entered here	э.		
Sub-installation	Unit	2014	2015	2016	2017	201
i.	TJ / year					
ii.	TJ / year					
iii.	TJ / year					
iv.	TJ / year					

IV.		IJ/year			
٧.		TJ / year			
vi.		TJ / year			
vii.		TJ / year			
viii.		TJ / year			
ix.		TJ / year			
х.		TJ / year			
xi.	produced outside product BM sub-	TJ / year			
	installations	-			
xii.	Sub-total	TJ / year			
(k)	Plausibility check				
	man and a second s		 		

This is to check comp	This is to check completeness of the waste gas balance. If different from zero, please check for any inconsistencies in the values listed above.						
 Difference (calculation) 	lated)	TJ / year					
ii. Difference (as fra	action of f)	%					

IV Electricity

Con	nplete balance of electricity at the installation
(a)	Does the installation produce electricity? Note that this question applies to all installations and is not directly related to whether the installation is an "electricity generator" within the meaning of Article 3(u) of the EU ETS Directive. If the answer here is "false", entries below are optional.

(b)	Total net amount of electricity produced in the installation	
-----	--	--

	Other electricity production includes e.g. hydro, wind, so	lar power, from expans	ion turbines and othe	er non-ETS processe	es.		
		Unit	2014	2015	2016	2017	2018
	Net electricity produced from fuels	MWh / year					
ii.	Other electricity produced	MWh / year					
(c)	Total electricity imported from the grid or	from other instal	llations				
	Electricity imported	MWh / year					
(d)	Total electricity exported to the grid or to	other installation	IS				
	Electricity exported	MWh / year					
(e)	Total electricity available for use in the in	stallation (= b+c-	d)				
	Electricity useable	MWh / year					
(f)	Total electricity consumed in the installat	ion					
	Electricity consumed in the installation	MWh / year					
(g)	Plausibility check: Sum of electricity input	t in sheet "F_Pro	ductBM" for ex	changability of	electricity		
i.	Electricity entered as exchangeable	MWh / year					
ii.	Compare to (f)	%					

<<< Click here to proceed to next sheet >>>

F.	Navigation area:	Table of contents	Previous sheet	Next sheet	Summary
Product BM	Top of sheet	Benchmark 1	Benchmark 2	Benchmark 3	Benchmark 4
	End of sheet	Benchmark 5	Benchmark 6	Benchmark 7	Benchmark 8
		Benchmark 9	Benchmark 10		

F. Sheet "ProductBM" - SUB-INSTALLATION DATA RELATING TO PRODUCT BENCHMARKS

The navigation bar above only contains links to the relevant sub-installations listed in section A.III.1.

1 Historic Activity levels and disaggregated production details

1 Sub-installation with product benchmark: of the is displayed autom

This sheet serves the following two purposes:

- data needed to determine the amount of free allocation of product benchmark sub-insta - data needed to determine improvement rates of product benchmark values.

(a) Historic activity levels

Under this point the "main activity levels" should be reported, i.e. the data which is directly applicable for the calculation of the allocation

Usually this is the production data of the product, e.g. tonnes of grey cement clinker or tonnes of glass bottles, as defined by Annex I of the FAR.

However, if a message appears under point (b), the appropriate calculation tool has to be used, and its results are automatically copied into this table under (ii).

Based on the start of normal operation entered in Alli, if will be automatically determined if this sub-installation has been operating for less than one year in the baseline period. If this is the case, the historic activity level will be determined based on the first calendar year after the start of normal operation, pursuant to the third sub-paragraph of Article 15(7).

Corresponding entries are required in column N for that year which will either be 2019 or 2020. However, since the annual production for that year will not be known at the time of the NIMs submission, entries here can only be done at a later stage.

	Annual activity levels:	Unit	2014	2015	2016	2017	2018	
i.		tonnes						
ii.	From sheet "H_SpecialBM":	tonnes						
iii.	Values used for calculation:	tonnes						

(b) Special reporting requirements:

quirements: require special information to be reported (e.g. CWT values). If relevant, an automatically generated message will appear here

Further correction factors

(c) Exchangeability of fuel and electricity:

If relevant, an automatically generated message will appear here demanding the input needed for taking into account the exchangeability of fuels and electricity According to Article 22 of the FAR the "direct emissions", the net amount of "imported heat" and the "relevant electricity consumption" are needed.

The total direct emissions are usually identical to the values provided under point (g) below. However, in particular where waste gases are used, further corrections might be necessary, so ple consider the guidance provided under point (g) below. The net imported heat is taken automatially from (k) i below.

	Parameter	Unit	2014	2015	2016	2017	2018	
i.	Direct emissions	t CO2 / year						
ii.	Net imported heat	TJ / year						
iii.	Relevant electricity consumption	MWh / year						
iv.	Total direct emissions	t CO2 / year						
v.	Indirect emissions	t CO2 / year						

(d) Heat imported from non-ETS installations or entities:

Pursuant to Article 21 of the FAR, an amount of emissions has to be deducted from the preliminary annual allocation from product-benchmark sub-installa

That amount is the amount of measurable heat imported from non-ETS installations (including any heat from nitric acid sub-installations) or entities multiplied with the heat benchmark. Please enter the appropriate values here. Note that the values have to be consistent with the sub-totals for import from non-ETS under point E.I.c in sheet "E_Energy flows".

The data must also be consistent with the total net measurable heat imported entered under point (k).i below

Parameter		Unit	2014	2015	2016	2017	2018	
i. Measurable heat im	ported from non-ETS:	TJ / year						
ii. Consistency check v	vith sheet "E_Energy	%						
flows":								
iii. Consistency check v	vith point (k)(i):	%						

Production details

(e) Identification of products included in this product benchmark sub-installation

tes can be relevant for allocation purposes. The relevant products must be identified here A product benchmark can encompass several similar products (or product groups). In some cases intermediates can in order to allow the competent authority to check if the boundaries defined for this product benchmark are respected.

PRODCOM codes shall be entered in the form "nnnnnnn", i.e. without any dots or other delimiters inbetween. Only if PRODCOM are not available, at least a 4-digit level NACE code should be provided in the form of "nnnn"

A list of PRODCOM 2010 codes can be found at:

http://ec.europa.eu/eurostat/ramon/nomenclatures/index.cfm?TargetUrl=LST_CLS_DLD&StrNom=PRD_2010&StrLanguageCode=EN&StrLayoutCode=HIERARCHIC

(f) Individual production levels of products included in this product benchmark sub-installation

		Name of product or group of products	Unit	2014	2015	2016	2017	2018
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
	Sum of produc	tion levels						

Data required for the determination of the benchmark improvement rate pursuant to Article 10a(2) of the EU ETS Directive Sub-installation with product benchmark:

This sub-section covers the attribution of emissions related to source streams, emissions sources, import and export of measurable heat and waste gases including heat losses in accordance with section 10 of Annex VII of the FAR.

Please note that although some guidance is provided for each of the points below, further information should be sought in

Guidance Document No. 5 ("Monitoring and Reporting in relation to the FAR") which also includes examples. The Guidance can be downloaded from:

< Link to be provided as soon as available

n entries made below, the attributable emissions are calculated in section K.III.2 of the summary sheet.

(g) Directly attributable emissions (DirEm* (MP source streams)) to this sub-installation Data provided here will impact the attributable emissions in accordance with section 10.1.1 of Annex VII of the FAR.

Please enter here the Directly attributable emissions (DirEm* (MP source streams)) to this sub-installation taking into account the following provisions:

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	methodologies (using source streams), r	measurement based m		as well as no-tier app	roaches ("fall-back		
	However, in several situations the "direc used for the production of measurable he						
	double counting or omissions.	-			-		
	 Measurable heat: where the heat is exclusion Wherever fuels are used to produce measurement exports to other installations), the fuels s 	asurable heat as "input	" to more than one sub	-installation where th	e heat is consume	d (which includes sit	uations with impor
	"Inputs" include measurable heat from a supplies heat to more than one sub-insta						neat producing un
	 Measurable heat exported: where such I done based on entries under point (k).v. 		the process and expor	ted, no corrections s	hould be made here	e. The deduction for	the associated em
	- Waste gases: emissions from waste gas		ED from other installati	ions or sub-installatio	ns and consumed	in this sub-installatio	n, should not be in
	but under point (I) below.						
	rectly attributable emissions (DirEm*)	Unit t CO2e/year	2014	2015	2016	2017	2018
As con The	tel input to this sub-installation and relevan required by Annex IV, section 2.4(a) of the FAR, please p ntent of each fuel which is included in the figure given und term "fuel" should be understood as any source stream, tor corresponds to the accumulated emissions from the fu	provide the total fuel inp der point (g), applying th in accordance with the	out to the sub-installation he same system bound M&R Regulation that i	laries as for point (g)		-	
	e weighted emission factor should furthermore include em						
Dat	ta provided here are only used for consistency checki	ing and have no direc Unit	t impact on either the 2014	attributable emissi 2015	ons or the allocati 2016	ion. 2017	2018
	iel input	TJ / year	2014	2013	2010	2017	2010
ii. <u>W</u> e	eighted emission factor	t CO2 / TJ					
	inther internal source streams imported to						
	ta provided here will impact the attributable emissions s important to note that any source streams should or				emissions under 4	g) above to avoid a	ny data gaps or c
COL	unting. Emissions associated with waste gases should	d NOT be listed here l	but under (I) below.				
	ease enter here information on the so-called internal source						
For	r example, if this is the "coke" sub-installation of an integra	rated iron&steel plant, e	missions associated w	ith the consumption	of coke occur in the	e blast furnace and s	hould not be attrib
the step	e "coke") sub-installation. Nevertheless, a part of the emiss p.	sions will be included u	muer (g) above, becau	se coal entering the	Joke oven will be of	e or the source stre	ams attributed the
		node to it	ng the	otion -	000-1	W. This	
	order to avoid double counting, a correction needs to be m ount figure in case of "export". For giving a complete bala						
are	ount figure in case of "export". For giving a complete bala a already covered under (g) above (as included in the emis						
	ould not be made here, but under (I).xx. below.						
Cor	nversely, if this is the hot metal benchmark sub-installation	on in an integrated iron&	&steel plant, coke need	ls to be listed here as	s ingoing/imported '	"internal" source stre	eam with positive a
	e further imported or exported internal source here are more than two source streams imported or expon	e streams relevant	tor this sub-instal	lation?			
	the mail two solutions streams imported or owner	rted multiple	reams should be	ed togother !	ective nome	ided	
		rted, multiple source str	reams should be group	ed together and resp	ective names provi	ided.	
ii. Na	ame of further source streams - 1:						
ii. Na <u>Fu</u>	ame of further source streams - 1: Irther source streams - 1	Unit	reams should be group	ed together and resp 2015	ective names provi	ided. 2017	2018
ii. Na <u>Fu</u> iii. Am	ame of further source streams - 1: urther source streams - 1 mount imported or exported						2018
ii. Na Fu iii. Am iv. Ne	ame of further source streams - 1: Irther source streams - 1	Unit t / year					2018
ii. Na iii. <u>Arr</u> iv. <u>Ne</u> v. <u>Ca</u> vi. <u>Bic</u>	ame of further source streams - 1: urther source streams - 1 mount imported or exported et calorific value (NCV), if applicable arbon content (mass %) omass content (as fraction of carbon)	Unit t / year GJ / t %					2018
ii. Na Fu iii. Am iv. Ne v. Ca vi. Bic vii. Em	ame of further source streams - 1: urther source streams - 1 nount imported or exported t calorific value (NCV), if applicable arbon content (mass %) omass content (as fraction of carbon) missions (fossil, calculated)	Unit t / year GJ / t % % t CO2 / year					2018
ii. Na Fu iii. An iv. Ne v. Ca vi. Bic vii. En viii. Me	ame of further source streams - 1: urther source streams - 1 mount imported or exported at calorific value (NCV), if applicable arbon content (mass %) omass content (as fraction of carbon) missions (fossil, calculated) emo-Item: Biomass emissions	Unit t / year GJ / t %					2018
ii. Na Fu iii. Arr iv. Ne v. Ca vi. Bic vii. Err vii. Me ix. En	ame of further source streams - 1: urther source streams - 1 nount imported or exported t calorific value (NCV), if applicable arbon content (mass %) omass content (as fraction of carbon) missions (fossil, calculated)	Unit t / year GJ / t % t CO2 / year t CO2 / year					2018
ii. Na Fu iii. Am iv. Ne v. Ca vi. Bic vii. En viii. Me ix. En x. Err	ame of further source streams - 1: anther source streams - 1 mount imported or exported at calorific value (NCV), if applicable arbon content (mass %) omass content (as fraction of carbon) missions (fossil, calculated) emo-Item: Biomass emissions hergy content (calculated) ror messages (emissions)	Unit t / year GJ / t % t CO2 / year t CO2 / year					2018
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Kii. Types of waste gases exported:
v. Net calorific value GJ/1000Nm3 v. Waste gas exported TJ / year ri. Specific EF (exported waste gas) t CO2 / TJ v) Electricity production Data provided here will impact the attributable emissions in accordance with chapter 10 of Annex VII of the FAR. This includes electricity that is produced directly from this sub-installation as required by Annex IV, section 3.1(i) of the FAR. Any electricity that is produced via intermediate means the listed here but under export of measurable heat under (k).v. above. Unit 2014 2015 2016 2017 201
vv. Waste gas exported TJ / year Specific EF (exported waste gas) t CO2 / TJ n) Electricity production Data provided here will impact the attributable emissions in accordance with chapter 10 of Annex VII of the FAR. This includes electricity that is produced directly from this sub-installation as required by Annex IV, section 3.1(i) of the FAR. Any electricity that is produced via intermediate meet not be listed here but under export of measurable heat under (k), v. above. Unit 2014 2015 2016 2017 201
Blectricity production Data provided here will impact the attributable emissions in accordance with chapter 10 of Annex VII of the FAR. This includes electricity that is produced directly from this sub-installation as required by Annex IV, section 3.1(i) of the FAR. Any electricity that is produced via intermediate mean not be listed here but under export of measurable heat under (k).v. above. Unit 2014 2015 2016 2017 201
Data provided here will impact the attributable emissions in accordance with chapter 10 of Annex VII of the FAR. This includes electricity that is produced directly from this sub-installation as required by Annex IV, section 3.1(i) of the FAR. Any electricity that is produced via intermediate metric to be listed here but under export of measurable heat under (k).v. above. Unit 2014 2015 2016 2017 201
This includes electricity that is produced directly from this sub-installation as required by Annex IV, section 3.1(i) of the FAR. Any electricity that is produced via intermediate means the listed here but under export of measurable heat under (k).v. above. Unit 2014 2015 2016 2017 207
Unit 2014 2015 2016 2017 20
Electricity produced MWh / year
n) Total amount of pulp produced
Pursuant to Annex IV, section 2.4(k), the total amount of pulp produced for the short fibre kraft pulp, long fibre kraft pulp, thermo-mechanical pulp and mechanical pulp, sulphite pulp benchmark sub-installations should be reported.
This section will be greyed out if this is not one of those pulp producing sub-installation. In such case, please continue with the points below.
Data provided here will be relevant for the update of the specific pulp benchmark.
tonnes
 Import or export of intermediate products covered by product benchmarks
In order to avoid any double counting or gaps in attributed emissions when determining the updated benchmarks, Annex IV, section 2.7(d) of the FAR require you to report any in intermediary products covered by any of the product benchmarks listed in Annex I of the FAR.
Intermediary products covered by any of the product benchmarks listed in Annex 1 of the PAR. Data provided here might impact the update of the specific benchmark.
i. Is there any import or export of intermediate products covered by product benchmarks?
Imported amounts: Unit 2014 2015 2016 2017 20
ii
tonnes tonnes
Exported amounts: Unit 2014 2015 2016 2017 201
v. tonnes
i Description of the intermediate analysis imported as expected
vi. Description of the intermediate products imported or exported
Please provide a brief description of the production process with respect to the intermediate products imported or exported.
Please provide a brief description of the production process with respect to the intermediate products imported or exported.
Please provide a brief description of the production process with respect to the intermediate products imported or exported.
Please provide a brief description of the production process with respect to the intermediate products imported or exported.
Ib-installation with product benchmark:
ub-installation with product benchmark: Detailed instructions for data entries in this tool can be found at the first copy of this tool. (F.I.1) a) Historic activity levels
ub-installation with product benchmark:

i.		tonnes			
ii.	From sheet "H_SpecialBM":	tonnes			
iii.	Values used for calculation:	tonnes			
(b)	Special reporting requirements:				

Further correction factors

c) Exchangeability of fuel and electricity:]					
Parameter	Unit	2014	2015	2016	2017	2018	
i. Direct emissions	t CO2 / year						
ii. Net imported heat	TJ / year						
iii. Relevant electricity consumption	MWh / year						
iv. Total direct emissions	t CO2 / year						
v. Indirect emissions	t CO2 / year						
v. Indirect emissions I) Heat imported from non-ETS installations	1						
	1	2014	2015	2016	2017	2018	
I) Heat imported from non-ETS installations	or entities:	2014	2015	2016	2017	2018	
Heat imported from non-ETS installations Parameter	or entities: Unit	2014	2015	2016	2017	2018	

Production details

(e) Identification of products included in this product benchmark sub-installation A list of PRODCOM 2010 codes can be found at:

http://ec.europa.eu/eurostat/ramon/nomenclatures/index.cfm?TargetUrl=LST_CLS_DLD&StrNom=PRD_2010&StrLanguageCode=EN&StrLayoutCode=HIERARCHIC

(f) Individual production levels of products included in this product benchmark sub-installation

		Name of product or group of products	Unit	2014	2015	2016	2017	2018
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
	Sum of produc	tion levels						

Data required for the determination of the benchmark improvement rate pursuant to Article 10a(2) of the EU ETS Directive Sub-installation with product benchmark:

Upon entries made below, the attributable emissions are calculated in section K.III.2 of the summary sheet.

(g) Directly attributable emissions (DirEm* (MP source streams)) to this sub-installation

Directly attributable emissions (DirEm*)	Unit	2014	2015	2016	2017	2018
	t CO2e/year					
Fuel input to this sub-installation and rele	evant emission fac	tor				
	Unit	2014	2015	2016	2017	2018
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Further internal source streams imported						
Are further imported or exported internal sou	irce streams relevar	nt for this sub-instal	lation?			
Name of further source streams - 1:						
Further source streams - 1	Unit	2014	2015	2016	2017	2018
Amount imported or exported	t / year	2014	2010	2010	2011	2010
Net calorific value (NCV), if applicable	GJ/t					
Carbon content (mass %)	%					
Biomass content (as fraction of carbon)	%					
Emissions (fossil, calculated)	t CO2 / year					
Memo-Item: Biomass emissions	t CO2 / year					
Energy content (calculated)	TJ / year					
Error messages (emissions)						
Name of further source streams - 2:						
Further source streams - 2	Unit	2014	2015	2016	2017	2018
Amount imported or exported	t / year					2010
Net calorific value (NCV), if applicable	GJ/t					
Carbon content (mass %)	%					
Biomass content (as fraction of carbon)	%					
Emissions (fossil, calculated)	t CO2 / year					
Memo-Item: Biomass emissions	t CO2 / year					
Energy content (calculated)	TJ / year					
Error messages (emissions)	L					
Amount of GHG imported or exported as						
	Unit	2014	2015	2016	2017	2018
GHG imported or exported	t CO2e/year					
Management to the set from and the set of some of the		11				
Measurable heat import to and export from For attributing emissions from cogeneration (CHP) to pro-			no to he used			
Fotal heat imported	Unit	2014	2015	2016	2017	2018
Net heat imported	TJ / year	2014	2015	2016	2017	2018
Specific EF (imported heat)	t CO2 / TJ					
Special heat import	Unit	2014	2015	2016	2017	2018
Net heat imported from pulp	TJ / year					
Net heat imported from nitric acid sub-	TJ / year					
Total heat exported	Unit	2014	2015	2016	2017	2018
Net heat exported	TJ / year					

(I) Waste gas balance for this sub-installation

i. Are waste gases relevant for this sub-installation?

ii. Types of waste gases produced:

Γ

	Unit	2014	2015	2016	2017	2018
Amounts produced	1000Nm3/year					
Net calorific value	GJ/1000Nm3					
Waste gas produced	TJ / year					
Specific EF (produced waste gas)	t CO2 / TJ					
Types of waste gases consumed:						
	Unit	2014	2015	2016	2017	2018
Amounts consumed	1000Nm3/vear	2014	2010	2010	2011	2010
Net calorific value	GJ/1000Nm3					
Waste gas consumed	TJ / year					
Specific EF (consumed waste gas)	t CO2 / TJ					
Types of waste gases flared:						
	Unit	2014	2015	2016	2017	2018
Amounts flared	1000Nm3/year					
Net calorific value	GJ/1000Nm3					
Waste gas flared	TJ / year					
Specific EF (flared waste gas)	t CO2 / TJ					
Types of waste gases imported:						
	Unit	2014	2015	2016	2017	2018
Amounts imported	1000Nm3/vear					2010
Net calorific value	GJ/1000Nm3					
Waste gas imported	TJ / year					
Specific EF (imported waste gas)	t CO2 / TJ					
	Unit	2014	2015	2016	2017	2018
Amounts exported	1000Nm3/year					
Net calorific value	GJ/1000Nm3					
Waste gas exported	TJ / year					
Specific EF (exported waste gas)	t CO2 / TJ	Į	_		Į	
Electricity production						
	Unit	2014	2015	2016	2017	2018
	MWh / year					
Electricity produced	WWWII / year					
Electricity produced Total amount of pulp produced						
	tonnes					
Total amount of pulp produced	tonnes	benchmarks				
Total amount of pulp produced	tonnes		arks?			
Total amount of pulp produced Import or export of intermediate produced Is there any import or export of intermed	tonnes ucts covered by product iate products covered by p	roduct benchm				
Total amount of pulp produced Import or export of intermediate produced Is there any import or export of intermed Imported amounts:	tonnes ucts covered by product iate products covered by p Unit		arks? 2015	2016	2017	2018
Total amount of pulp produced Import or export of intermediate produced Is there any import or export of intermed Imported amounts:	tonnes ucts covered by product iate products covered by p Unit tonnes	roduct benchm		2016	2017	2018
Total amount of pulp produced Import or export of intermediate produced Is there any import or export of intermed Imported amounts:	tonnes ucts covered by product iate products covered by p Unit	roduct benchm		2016	2017	2018
Total amount of pulp produced Import or export of intermediate produced Is there any import or export of intermed Imported amounts:	tonnes ucts covered by product iate products covered by p Unit tonnes	roduct benchm		2016	2017	2018
Total amount of pulp produced Import or export of intermediate produing the second sec	tonnes ucts covered by product iate products covered by p Unit tonnes Unit	2014	2015			
Total amount of pulp produced Import or export of intermediate prod Is there any import or export of intermed Imported amounts: Exported amounts:	tonnes ucts covered by product iate products covered by p Unit tonnes tonnes	2014	2015			

3 Sub-installation with product benchmark:

Detailed instructions for data entries in this tool can be found at the first copy of this tool. (F.I.1)

(a) Historic activity levels

	Annual activity levels:	Unit	2014	2015	2016	2017	2018	
i.		tonnes						
ii.	From sheet "H_SpecialBM":	tonnes						
iii.	Values used for calculation:	tonnes						
(b)	Special reporting requirements:							

Further correction factors

(c)	Exchangeability of fuel and electricity:							
	Parameter	Unit	2014	2015	2016	2017	2018	
i.	Direct emissions	t CO2 / year						
ii.	Net imported heat	TJ / year						
iii.	Relevant electricity consumption	MWh / year						
iv.	Total direct emissions	t CO2 / year						
٧.	Indirect emissions	t CO2 / year						

(d) Heat imported from non-ETS installations or entities:

	Parameter	Unit	2014	2015	2016	2017	2018	
i.	Measurable heat imported from non-ETS:	TJ / year						
ii.	Consistency check with sheet "E_Energy	%						
	flows":							
iii.	Consistency check with point (n):	%						

Production details

(e) Identification of products included in this product benchmark sub-installation A list of PRODCOM 2010 codes can be found at:

http://ec.europa.eu/eurostat/ramon/nomenclatures/index.cfm?TargetUrl=LST_CLS_DLD&StrNom=PRD_2010&StrLanguageCode=EN&StrLayoutCode=HIERARCHIC

(f) Individual production levels of products included in this product benchmark sub-installation

	Name of product or group of products	Unit	2014	2015	2016	2017	2018
1							
2							
3							
4							

		_					
Sum of produc	ction levels						
required for	the determination of the	benchmark impr	ovement rate p	ursuant to Art	ticle 10a(2) o	of the EU ETS	Directive
installation wi	th product benchmark:	<u> </u>					
Upon entries	made below, the attributable	e emissions are ca	alculated in secti	ion K.III.2 of the	e summary sh	<u>ieet.</u>	
Directly attrib	outable emissions (DirEm* (I	MP source streams	s)) to this sub-ins	stallation			
Directly attrib	outable emissions (DirEm*)	Unit	2014	2015	2016	2017	2018
Directly attrib		t CO2e/year	2014	2010	2010	2011	2010
Fuel input to	this sub-installation and rel	evant emission far	ctor				
-		Unit	2014	2015	2016	2017	2018
Fuel input Weighted emis	ssion factor	TJ / year t CO2 / TJ					
weighted entil	331011140101	1002/13	 	I			
	nal source streams imported				r		
	ported or exported internal some per source streams - 1:	ince streams releva	nt for this sub-inst	lanation?			
Further source		Unit	2014	2015	2016	2017	2018
	ted or exported	t / year	2014	2013	2010	2017	2010
	alue (NCV), if applicable	GJ/t					
Carbon conter	nt (mass %) ent (as fraction of carbon)	%					
	ssil, calculated)	t CO2 / year					
	Biomass emissions	t CO2 / year					
Energy conter Error message		TJ / year					
Enor message							
Name of furth	ner source streams - 2:	[
Further source		Unit	2014	2015	2016	2017	2018
	ted or exported alue (NCV), if applicable	t/year GJ/t					
Carbon conter		%					
	ent (as fraction of carbon)	%					
	ssil, calculated) Biomass emissions	t CO2 / year t CO2 / year					
Energy conten		TJ / year					
Error message	es (emissions)	[
Amount of G	HG imported or exported as	feedstock					
		Unit	2014	2015	2016	2017	2018
GHG imported	d or exported	t CO2e/year					
	eat import to and export fro						
For attributing em	issions from cogeneration (CHP) to p norted	roduction of heat, the "CF Unit	HP tool" in section D.III. 2014	<u>l. has to be used.</u> 2015	2016	2017	2018
Net heat impo	rted	TJ / year					
Specific EF (in	mported heat)	t CO2 / TJ					
Special heat in Net heat impo		Unit	2014	2015	2016	2017	2018
	rted from nitric acid sub-	TJ / vear		(2010
		TJ / year					2010
I otal neat ev		TJ / year Unit	2014	2015	2016	2017	
Total heat expo	ported rted	Unit TJ / year	2014	2015	2016	2017	2018
	ported rted	Unit	2014	2015	2016	2017	
Net heat expo Specific EF (e	ported rted xported heat)	Unit TJ / year t CO2 / TJ	2014	2015	2016	2017	
Net heat expo Specific EF (e Waste gas ba	ported rted xported heat) alance for this sub-installation	Unit TJ/year t CO2/TJ	2014	2015	2016	2017	
Net heat expo Specific EF (e Waste gas ba Are waste gas	ported rted xported heat) alance for this sub-installations sub-in	Unit TJ/year t CO2/TJ	2014	2015	2016	2017	
Net heat expo Specific EF (e Waste gas ba Are waste gas	ported rted xported heat) alance for this sub-installation	Unit TJ/year t CO2/TJ on tallation?			[2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod	ported rted xported heat) alance for this sub-installation ses relevant for this sub-ins ite gases produced: uced	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year	2014	2015	2016 2016 2016	2017	2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va	ported rted xported heat) alance for this sub-installation ses relevant for this sub-ins ite gases produced: uced alue	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3			[2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas prod	ported rted xported heat) lance for this sub-installation ses relevant for this sub-ins ite gases produced: uced alue poduced	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year			[
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific ve Waste gas prod	ported rted xported heat) alance for this sub-installation ses relevant for this sub-ins ite gases produced: uced alue	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3			[2018
Net heat expo Specific EF (e Waste gas ba Are waste ga: Types of was Amounts prod Net calorific vz Waste gas pro Specific EF (p	ported rted xported heat) lance for this sub-installation ses relevant for this sub-ins ite gases produced: uced alue poduced	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year			[2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas pro Specific EF (p Types of was	ported rted xported heat) alance for this sub-installation ses relevant for this sub-installation ses relevant for this sub-installation set gases produced: uced alue	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit			[2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas pro Specific EF (p Types of was Amounts cons	ported rted xported heat) alance for this sub-installatic ses relevant for this sub-ins ite gases produced: uced alue oduced roduced waste gas) ite gases consumed: umed	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year TJ / year t CO2 / TJ Unit Unit Unit 1000Nm3/year	2014	2015	2016	2017	2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas pro Specific EF (p Types of was Amounts cons Net calorific va	ported rted xported heat) alance for this sub-installati ses relevant for this sub-ins te gases produced: uced alue oduced roduced waste gas) te gases consumed: uumed alue	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas pro Specific EF (p Types of was Amounts cons Net calorific va Waste gas cor	ported rted xported heat) alance for this sub-installati ses relevant for this sub-ins te gases produced: uced alue oduced roduced waste gas) te gases consumed: uumed alue	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year TJ / year t CO2 / TJ Unit Unit Unit 1000Nm3/year	2014	2015	2016	2017	2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas pro Specific EF (p Types of was Net calorific va Waste gas con Specific EF (c	ported rted xported heat) alance for this sub-installatic ses relevant for this sub-ins te gases produced: uced alue duced roduced waste gas) te gases consumed: umed alue nsumed onsumed waste gas)	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year 1000Nm3/year GJ/1000Nm3 TJ / year	2014	2015	2016	2017	2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas pro Specific EF (p Types of was Net calorific va Waste gas con Specific EF (c	ported rted xported heat) alance for this sub-installatid ses relevant for this sub-ins te gases produced: uced alue oduced roduced waste gas) te gases consumed: umed alue nsumed	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year CJ/1000Nm3 TJ / year CJ/1000Nm3	2014	2015	2016	2017	2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas pro Specific EF (p Types of was Amounts cons Net calorific va Waste gas con Specific EF (c Types of was	ported rted xported heat) alance for this sub-installatie ses relevant for this sub-ins te gases produced: uced alue oduced roduced waste gas) ate gases consumed: umed alue nsumed onsumed waste gas) te gases flared:	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit Unit Unit Unit	2014	2015	2016	2017	2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas pro Specific EF (p Types of was Amounts cons Net calorific va Waste gas con Specific EF (c Types of was Amounts flare Net calorific va	ported rted xported heat) alance for this sub-installatic ses relevant for this sub-ins te gases produced: uced alue oduced roduced waste gas) te gases consumed: umed alue nsumed onsumed waste gas) te gases flared: d alue	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year CJ/1000Nm3 TJ / year CJ/1000Nm3	2014	2015	2016	2017	2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas pro Specific EF (p Types of was Amounts cons Net calorific va Waste gas con Specific EF (c Types of was Amounts flarer Net calorific va Waste gas fla	ported rted xported heat) alance for this sub-installatie ses relevant for this sub-ins te gases produced: uced alue oduced waste gas) rte gases consumed: uumed alue nsumed onsumed waste gas) ite gases flared: d alue red	Unit TJ / year t CO2 / TJ tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit Unit 1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas pro Specific EF (p Types of was Amounts cons Net calorific va Waste gas con Specific EF (c Types of was Amounts flarer Net calorific va Waste gas fla	ported rted xported heat) alance for this sub-installatic ses relevant for this sub-ins te gases produced: uced alue oduced roduced waste gas) te gases consumed: umed alue nsumed onsumed waste gas) te gases flared: d alue	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3/year t CO2 / TJ Unit 1000Nm3/year t CO2 / TJ	2014	2015	2016	2017	2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific vz Waste gas pro Specific EF (p Types of was Amounts cons Net calorific vz Waste gas con Specific EF (c Types of was Amounts flare Net calorific vz Waste gas flar Specific EF (fl	ported rted xported heat) alance for this sub-installatie ses relevant for this sub-ins te gases produced: uced alue oduced waste gas) rte gases consumed: uumed alue nsumed onsumed waste gas) ite gases flared: d alue red	Unit TJ / year t CO2 / TJ tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit Unit 1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas pro Specific EF (p Types of was Amounts cons Net calorific va Waste gas con Specific EF (c Types of was Amounts flare Net calorific va Waste gas flar Specific EF (fl Types of was	ported rted xported heat) alance for this sub-installatic ses relevant for this sub-ins te gases produced: uced alue roduced waste gas) te gases consumed: umed alue nsumed onsumed waste gas) te gases flared: d alue red ared waste gas) te gases imported:	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ	2014	2015	2016	2017	2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas prod Specific EF (p Types of was Amounts cons Net calorific va Waste gas con Specific EF (c Types of was Amounts flarer Net calorific va Waste gas fla Specific EF (fl Types of was	ported rted xported heat) alance for this sub-installatie ses relevant for this sub-ins te gases produced: uced alue oduced alue nsumed alue nsumed alue nsumed alue nsumed alue nsumed alue ses flared: d alue red ared waste gas) te gases flared: d alue red ared ared waste gas) te gases imported: wrted	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year CO2 / TJ	2014 2014 2014 2014	2015	2016 2016 2016 2016	2017 2017 2017 2017	2018 2018 2018 2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas prot Types of was Amounts cons Net calorific va Waste gas con Specific EF (c Types of was Amounts flare Net calorific va Waste gas flar Specific EF (fl Types of was Amounts flare Net calorific va Waste gas flar Specific EF (fl Types of was Amounts impo Net calorific va	ported rted xported heat) lance for this sub-installatic ses relevant for this sub-ins te gases produced: uced alue oduced roduced waste gas) cte gases consumed: umed alue nsumed onsumed waste gas) cte gases flared: d alue red ared ared waste gas) cte gases imported: uced	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3/year G	2014 2014 2014 2014	2015	2016 2016 2016 2016	2017 2017 2017 2017	2018 2018 2018 2018
Net heat expo Specific EF (e Waste gas ba Are waste gas Types of was Amounts prod Net calorific va Waste gas pro Specific EF (p Types of was Amounts cons Net calorific va Waste gas con Specific EF (c Types of was Amounts flaree Net calorific va Waste gas flar Specific EF (fl Types of was Amounts impo Net calorific va Waste gas flar Specific EF (fl	ported rted xported heat) lance for this sub-installatic ses relevant for this sub-ins te gases produced: uced alue oduced roduced waste gas) cte gases consumed: umed alue nsumed onsumed waste gas) cte gases flared: d alue red ared ared waste gas) cte gases imported: uced	Unit TJ / year t CO2 / TJ on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year CO2 / TJ	2014 2014 2014 2014	2015	2016 2016 2016 2016	2017 2017 2017 2017	2018 2018 2018 2018

		Unit	2014	2015	2016	2017	2018
kiii. Amounts exp		1000Nm3/year					
xiv. Net calorific v		GJ/1000Nm3					
xv. Waste gas ex	exported waste gas)	TJ / year t CO2 / TJ					
		1002/10		I	I		
m) Electricity p	oduction						
E 1. (1.1)		Unit	2014	2015	2016	2017	2018
Electricity pro	duced	MWh / year					
n) Total amoun	t of pulp produced						
		tonnes					
	ant of intermedicte unaduate	a a varia di la vira du	at henchmarks				
	port of intermediate products mport or export of intermediate p			narks?	I		
Imported am		Unit	2014	2015	2016	2017	2018
ii.	ounto.	tonnes	2014	2013	2010	2017	2010
iii.		tonnes					
Exported arr	ounts:	Unit	2014	2015	2016	2017	2018
iv		tonnes					
V		tonnes					
vi. Description o	f the intermediate products impo	orted or exported					
ub-installation	with product benchmark:	Γ					
	ructions for data entries in thi	s tool can be four	nd at the first co	ny of this too	L (E.I.1)		
			at the first cu	ey or this too			
a) Historic acti Annual activ		Unit	2014	2015	2016	2017	2018
i.		tonnes	2014	2010	2010	2011	2010
ii. From sheet "I	H_SpecialBM":	tonnes					
iii. Values used	or calculation:	tonnes					
b) Special repo	rting requirements:						
urther correction	on factors						
c) Exchangeab	ility of fuel and electricity:						
Parameter		Unit	2014	2015	2016	2017	2018
 Direct emission 		t CO2 / year TJ / year					
	haat						
ii. Net imported		MWn / year					
ii. Net imported	tricity consumption	MWh / year t CO2 / year					
ii. Net imported iii. Relevant elec	tricity consumption missions						
ii. Net imported iii. Relevant electiv. Total direct e v. Indirect emiss	tricity consumption missions	t CO2 / year t CO2 / year					
 ii. Net imported iii. Relevant elective iv. Total direct e v. Indirect emission d) Heat imported 	tricity consumption missions sions	t CO2 / year t CO2 / year or entities:					
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat importe Parameter	tricity consumption missions sions d from non-ETS installations	t CO2 / year t CO2 / year or entities: Unit	2014	2015	2016	2017	2018
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat importe Parameter i. Measurable f	tricity consumption missions sions d from non-ETS installations eat imported from non-ETS:	t CO2 / year t CO2 / year or entities: Unit TJ / year	2014	2015	2016	2017	2018
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat importe Parameter i. Measurable f	tricity consumption missions sions d from non-ETS installations	t CO2 / year t CO2 / year or entities: Unit	2014	2015	2016	2017	2018
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat importe Parameter i. Measurable h ii. Consistency flows":	tricity consumption missions sions d from non-ETS installations eat imported from non-ETS:	t CO2 / year t CO2 / year or entities: Unit TJ / year	2014	2015	2016	2017	2018
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat importer <u>Parameter</u> i. Measurable h ii. Consistency n flows":	tricity consumption missions ions id from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n):	t CO2 / year t CO2 / year or entities: Unit TJ / year %	2014	2015	2016	2017	2018
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat importe Parameter i. Measurable h ii. Consistency flows":	tricity consumption missions ions id from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n):	t CO2 / year t CO2 / year or entities: Unit TJ / year %	2014	2015	2016	2017	2018
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable h ii. Consistency i flows": iii. Consistency i roduction deta fe) Identification	tricity consumption missions of from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): ils of products included in this	t CO2 / year t CO2 / year or entities: Unit TJ / year % %			2016	2017	2018
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable f ii. Consistency flows": iii. Consistency flows": roduction deta (a) Identification A list of PRODC	tricity consumption missions ad from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n):	t CO2 / year t CO2 / year or entities: Unit TJ / year % %	rk sub-installati	on			
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable f ii. Consistency flows": iii. Consistency flows":	tricity consumption missions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): Is of products included in this DM 2010 codes can be found at: uv/eurostal/ramon/nomenclatures/index.	t CO2 / year t CO2 / year or entities: Unit TJ / year % % %	rk sub-installati	on D 2010&StrLangu	ageCode=EN&StrL		
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable f ii. Consistency flows": iii. Consistency flows":	tricity consumption missions ad from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n):	t CO2 / year t CO2 / year or entities: Unit TJ / year % % %	rk sub-installati	on D 2010&StrLangu	ageCode=EN&StrL		
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable f ii. Consistency flows": iii. Consistency flows": iii. Consistency flows": iii. Consistency flows flows http://ec.europa.	tricity consumption missions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): is of products included in this and 2010 codes can be found at: www.ostat/amon/nomenclatures/index. oduction levels of products in Name of product or group of	t CO2 / year t CO2 / year or entities: Unit TJ / year % % % product benchma	rk sub-installati	on D 2010&StrLangu	ageCode=EN&StrL		
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat importe Parameter i. Measurable H ii. Consistency flows*: iii. Consistency flows*:	tricity consumption missions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): Is of products included in this DM 2010 codes can be found at: u/deurostat/ramon/nomenclatures/index. oduction levels of products in	t CO2 / year t CO2 / year or entities: Unit TJ / year % % % product benchma	rk sub-installati S DLD&StrNom=PR oduct benchmar	on D 2010&StrLangu k sub-installa	ageCode=EN&StrL tion	ayoutCode=HIERA!	RCHIC
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable F ii. Consistency i flows": iii. Consistency i roduction deta fe) Identification A list of PRODC http://ec.europa.i (f) Individual pr PRODCOM 2010 1	tricity consumption missions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): is of products included in this and 2010 codes can be found at: www.ostat/amon/nomenclatures/index. oduction levels of products in Name of product or group of	t CO2 / year t CO2 / year or entities: Unit TJ / year % % % product benchma	rk sub-installati S DLD&StrNom=PR oduct benchmar	on D 2010&StrLangu k sub-installa	ageCode=EN&StrL tion	ayoutCode=HIERA!	RCHIC
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable f ii. Consistency flows": iii. Consistency flows": jlows":	tricity consumption missions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): is of products included in this and 2010 codes can be found at: www.ostat/amon/nomenclatures/index. oduction levels of products in Name of product or group of	t CO2 / year t CO2 / year or entities: Unit TJ / year % % % product benchma	rk sub-installati S DLD&StrNom=PR oduct benchmar	on D 2010&StrLangu k sub-installa	ageCode=EN&StrL tion	ayoutCode=HIERA!	RCHIC
ii. Net imported iii. Relevant elec v. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable h ii. Consistency o flows*: iii. Consisten	tricity consumption missions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): is of products included in this and 2010 codes can be found at: www.ostat/amon/nomenclatures/index. oduction levels of products in Name of product or group of	t CO2 / year t CO2 / year or entities: Unit TJ / year % % % product benchma	rk sub-installati S DLD&StrNom=PR oduct benchmar	on D 2010&StrLangu k sub-installa	ageCode=EN&StrL tion	ayoutCode=HIERA!	RCHIC
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable F ii. Consistency of flows": iii. Consistency of roduction deta e) Identification A list of PRODC http://ec.europa. (f) Individual pr PRODCOM 2010 1 2 5	tricity consumption missions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): is of products included in this and 2010 codes can be found at: www.ostat/amon/nomenclatures/index. oduction levels of products in Name of product or group of	t CO2 / year t CO2 / year or entities: Unit TJ / year % % % product benchma	rk sub-installati S DLD&StrNom=PR oduct benchmar	on D 2010&StrLangu k sub-installa	ageCode=EN&StrL tion	ayoutCode=HIERA!	RCHIC
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable f ii. Consistency flows": iii. Consistency flows": flows": flows flo	tricity consumption missions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): is of products included in this and 2010 codes can be found at: www.ostat/amon/nomenclatures/index. oduction levels of products in Name of product or group of	t CO2 / year t CO2 / year or entities: Unit TJ / year % % % product benchma	rk sub-installati S DLD&StrNom=PR oduct benchmar	on D 2010&StrLangu k sub-installa	ageCode=EN&StrL tion	ayoutCode=HIERA!	RCHIC
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable H ii. Consistency flows*: iii. Consistency flows*:	tricity consumption missions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): is of products included in this and 2010 codes can be found at: www.ostat/amon/nomenclatures/index. oduction levels of products in Name of product or group of	t CO2 / year t CO2 / year or entities: Unit TJ / year % % % product benchma	rk sub-installati S DLD&StrNom=PR oduct benchmar	on D 2010&StrLangu k sub-installa	ageCode=EN&StrL tion	ayoutCode=HIERA!	RCHIC
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable F ii. Consistency of flows": iii. Consistency of roduction deta fe) Identification A list of PRODC http://ec.europa. (f) Individual pr PRODCOM 2010 1 2 3 4 4 5 6 7 7 8 8	tricity consumption missions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): is of products included in this and 2010 codes can be found at: www.ostat/amon/nomenclatures/index. oduction levels of products in Name of product or group of	t CO2 / year t CO2 / year or entities: Unit TJ / year % % % product benchma	rk sub-installati S DLD&StrNom=PR oduct benchmar	on D 2010&StrLangu k sub-installa	ageCode=EN&StrL tion	ayoutCode=HIERA!	RCHIC
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ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable f ii. Consistency flows": iii. Consistency flows": flows": flows": glows": glows": flows": glows": glows": flows": glows": glows": glows": flows": glows":	tricity consumption missions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): is nof products included in this 2010 codes can be found at: www.orstat/amon/nomenclatures/index. oduction levels of products ir Name of product or group of products	t CO2 / year t CO2 / year or entities: Unit TJ / year % % % product benchma	rk sub-installati S DLD&StrNom=PR oduct benchmar	on D 2010&StrLangu k sub-installa	ageCode=EN&StrL tion	ayoutCode=HIERA!	RCHIC
ii. Net imported iii. Relevant elect iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable f ii. Consistency flows": iii. Consistency flows": flows"	tricity consumption missions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): is nof products included in this 2010 codes can be found at: www.orstat/amon/nomenclatures/index. oduction levels of products ir Name of product or group of products	t CO2 / year t CO2 / year or entities: Unit TJ / year % % % product benchma	rk sub-installati S DLD&StrNom=PR oduct benchmar	on D 2010&StrLangu k sub-installa	ageCode=EN&StrL tion	ayoutCode=HIERA!	RCHIC
ii. Net imported iii. Relevant elec iv. Total direct e v. Indirect emiss d) Heat imported Parameter i. Measurable h ii. Consistency of flows": iii. Consistency of roduction deta e) Identification A list of PRODC http://ec.europa. (f) Individual pr PRODCOM 2010 1 2 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	tricity consumption missions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): is nof products included in this 2010 codes can be found at: www.orstat/amon/nomenclatures/index. oduction levels of products ir Name of product or group of products	t CO2 / year t CO2 / year or entities: Unit TJ / year % % % % product benchma cfm?TargetUrLLST CL ccluded in this pro f Unit	rk sub-installati S. DLD&StrNom-PR duct benchmar 2014	on D 20108.StrLangu k sub-installat 2015	ageCode=EN&StrL tion 2016	ayourCode=HIERAF 2017	2018
ii. Net imported ii. Relevant elec v. Total direct e v. Total direct e v. Indirect emiss) Heat importer Parameter i. Measurable h ii. Consistency of flows": iii. Consistency of flows": consistency of flows": con	tricity consumption missions ions d from non-ETS installations eat imported from non-ETS: check with sheet "E_Energy check with point (n): ils of products included in this N2010 codes can be found at: wu/eurostat/ramon/nomenclatures/index. oduction levels of products ir Name of product or group of products	t CO2 / year t CO2 / year or entities: Unit TJ / year % % % % product benchma cfm?TargetUrLLST CL ccluded in this pro f Unit	rk sub-installati S. DLD&StrNom-PR duct benchmar 2014	on D 20108.StrLangu k sub-installat 2015	ageCode=EN&StrL tion 2016	ayourCode=HIERAF 2017	2018

(g) Directly attributable emissions (DirEm* (MP source streams)) to this sub-installation

Directly attributable emission	s (DirEm*)	Unit	2014	2015	2016	2017	2018
		t CO2e/year					
 Fuel input to this sub-installa 	tion and releva			2015	2016	2017	2018
 Fuel input to this sub-installa i. Fuel input 	tion and releva	nt emission fa Unit TJ / year	ctor 2014	2015	2016	2017	2018

(i) Further internal source streams imported to or exported from this sub-installation i. Are further imported or exported internal source streams relevant for this sub-installation?

ii. Name of further source streams - 1:

Further source streams - 1 Unit

2014

2015

2016

2017

2018

v. Carbon content (mass %)	%					
i. Biomass content (as fraction of carbo						
i. <u>Emissions (fossil, calculated)</u> i. <i>Memo-Item: Biomass emissions</i>	t CO2 / year t CO2 / year					
x. Energy content (calculated)	TJ / year					
. Error messages (emissions)						
	_					
i. Name of further source streams - 2						
Further source streams - 2	Unit	2014	2015	2016	2017	2018
i. Amount imported or exported i. Net calorific value (NCV), if applicabl	t/year le GJ/t					
/. Carbon content (mass %)	%					
. Biomass content (as fraction of carbo						
i. Emissions (fossil, calculated)	t CO2 / year					
. <u>Memo-Item: Biomass emissions</u>	t CO2 / year					
i. Energy content (calculated) v. Error messages (emissions)	TJ / year					
. End messages (emissions)						
Amount of GHG imported or expor	ted as feedstock					
CLIC imported or superted	Unit	2014	2015	2016	2017	2018
GHG imported or exported	t CO2e/year	L				
Measurable heat import to and exp	port from this sub-installation	n				
For attributing emissions from cogeneration (C	CHP) to production of heat, the "CHP to	ool" in section D.III. h				
Total heat imported	Unit	2014	2015	2016	2017	2018
i. Net heat imported i. Specific EF (imported heat)	TJ / year t CO2 / TJ					
Special heat import	Unit	2014	2015	2016	2017	2018
. Net heat imported from pulp . Net heat imported from nitric acid sub	TJ/year b- TJ/year					
		2044	2045	2010	2047	
Total heat exported	Unit TJ / year	2014	2015	2016	2017	2018
. Specific EF (exported heat)	t CO2 / TJ					
Waste gas balance for this sub-ins	stallation					
. Are waste gases relevant for this s	sub-installation?					
. Types of waste gases produced:						
	Unit	2014	2015	2016	2017	2018
. Amounts produced	1000Nm3/year	2014	2015	2010	2017	2010
Net calorific value	GJ/1000Nm3					
. Waste gas produced	TJ / year					
. Specific EF (produced waste gas)	t CO2 / TJ					
Turnes of wests gases consumed.						
. Types of waste gases consumed:				1	-	
Amounto consumod	Unit	2014	2015	2016	2017	2018
. Amounts consumed	1000Nm3/year GJ/1000Nm3					
. Waste gas consumed	TJ / year					
i. Specific EF (consumed waste gas)	t CO2 / TJ					
Types of waste gases flared:						
-				1		
		2014	2015	2016	2017	2018
. Amounts flared	1000Nm3/year	2014	2015	2016	2017	2018
. Amounts flared	1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	2018
. Amounts flared . Net calorific value . Waste gas flared	1000Nm3/year	2014	2015	2016	2017	2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas)	1000Nm3/year GJ/1000Nm3 TJ / year	2014	2015	2016	2017	2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas)	1000Nm3/year GJ/1000Nm3 TJ / year	2014	2015	2016	2017	2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported:	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit	2014	2015	2016	2017	
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year					
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3					
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year					
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3					
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas)	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year					
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas)	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year					2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported	1000Nm3/year GJ/1000Nm3 TJ/ year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ	2014	2015	2016	2017	2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gase exported	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year	2014	2015	2016	2017	2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gase exported	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Net calorific value Waste gas exported Specific EF (exported waste gas)	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year	2014	2015	2016	2017	2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Net calorific value Waste gas exported Specific EF (exported waste gas)	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ t CO2 / TJ	2014	2015	2016	2017	2018 2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Net calorific value Waste gas exported Specific EF (exported waste gas)	1000Nm3/year GJ/1000Nm3 TJ/ year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ	2014	2015	2016	2017	2018 2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas) Electricity produced	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ t CO2 / TJ	2014	2015	2016	2017	2018 2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas) Electricity produced	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ t CO2 / TJ	2014	2015	2016	2017	2018 2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas) Electricity produced	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ	2014	2015	2016	2017	2018 2018
Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Met calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Met calorific value Waste gas exported Specific EF (exported waste gas) Electricity production Electricity produced Total amount of pulp produced Import or export of intermediate pr	1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit MWh / year tonnes tonnes	2014 2014 2014 2014 2014 2014 benchmarks	2015 2015 2015 2015	2016	2017	2018 2018
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b-installation with product	t benchmark:						
Detailed instructions for da		tool can be for	ind at the first c	ony of this too	L (E.L1)		
) Historic activity levels							
Annual activity levels:		Unit	2014	2015	2016	2017	2018
i. Erem ekset "I.I. SpecialDM":		tonnes					
ii. From sheet "H_SpecialBM":ii. Values used for calculation:		tonnes tonnes					
) Special reporting requirem							
, openin opening requirem							
rther correction factors							
) Exchangeability of fuel and	d electricity:		. [
Parameter j. Direct emissions		Unit t CO2 / year	2014	2015	2016	2017	2018
i. Net imported heat		TJ / year					
ii. Relevant electricity consump	ption	MWh / year					
v. Total direct emissions v. Indirect emissions		t CO2 / year t CO2 / year					
) Heat imported from non-E	TS installations of						
		rentities.					
Parameter		Unit	2014	2015	2016	2017	2018
 Measurable heat imported fr ii. Consistency check with sheet 		TJ / year %					
flows":							
. Consistency check with poin	nt (n):	%					
duction details							
Identification of products i	included in this pr	roduct henchm	ark sub-installa	tion			
A list of PRODCOM 2010 codes car	n be found at:						
http://ec.europa.eu/eurostat/ramon/r						ayoutCode=HIERAF	<u>RCHIC</u>
Individual production level	-					1	
PRODCOM Name of pro 2010 products	oduct or group of	Unit	2014	2015	2016	2017	2018
Sum of production levels a required for the determini- installation with product be	enchmark:				. ,		Directive
Sum of production levels a required for the determino- installation with product be Upon entries made below,	enchmark: , <i>the attributable e</i>	emissions are c	alculated in sec	ction K.III.2 of t	. ,		Directive
Sum of production levels a required for the determino- installation with product be Upon entries made below,	enchmark: <u>, the attributable e</u> sions (DirEm* (MP	emissions are c source stream Unit	alculated in sec	ction K.III.2 of t	. ,		Directive
Sum of production levels Sum of production levels ta required for the determi p-installation with product be <u>Upon entries made below,</u>) Directly attributable emiss <u>Directly attributable emiss</u>	enchmark: <u>, the attributable e</u> sions (DirEm* (MP sions (DirEm*)	missions are c source streams Unit t CO2e/year	alculated in sec s)) to this sub-in 2014	tion K.III.2 of t	he summary sl	<u>ieet.</u>	
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ta required for the determi b-installation with product be <u>Upon entries made below</u> ,) Directly attributable emiss <u>Directly attributable emiss</u> <u>Directly attributable emiss</u> <u>Directly attributable emiss</u>) Fuel input to this sub-insta i. Fuel input i. Weighted emission factor Further internal source stron Further imported or exported v. Name of further source stron Further source streams - 1 ii. Amount imported or exported v. Carbon content (mass %) i. Biomass content (as fraction ii. Emissions (fossil, calculated) ii. Amount imported or exported v. Carbon content (calculated) x. Error messages (emissions) di. Name of further source stre Further source streams - 1 ii. Amount imported or exported ii. Amount (as fraction ii. Emissions (fossil, calculated) v. Carbon content (calculated) v. Biomass content (as fraction ii. Emissions (fossil, calculated) v. Error messages (emissions)	enchmark: , the attributable e sions (DirEm*) allation and releva allation and releva reams imported to orted internal source reams - 1: 1 applicable n of carbon) applicable n of carbon) applicable	Unit t CO2e/year unit emission far Unit TJ / year t CO2 / TJ or exported frr e streams releva Unit t / year GJ / t % t CO2 / year t CO2 / year t CO2 / year TJ / year GJ / t % t CO2 / year t CO2 / year t CO2 / year t CO2 / year TJ / year GJ / t % t CO2 / year t CO2 / year t CO2 / year t CO2 / year t CO2 / year TJ / year	alculated in sec s)) to this sub-in 2014 ctor 2014 2014 2014 2014	tailation 2015 2015 2015 2015 2015 2015 2015 2015	2016 2016 2016 2016 2016 2016 2016	2017 2017 2017 2017 2017 2017	2018 2018 2018 2018 2018
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required for the determi installation with product be Upon entries made below, Directly attributable emiss Directly attributable emiss Directly attributable emiss Directly attributable emiss Fuel input to this sub-insta Fuel input Weighted emission factor Further internal source stre Are further imported or exported Name of further source stre Are further source streams - 1 Amount imported or exported Net calorific value (NCV), if a Carbon content (mass %) Biomass content (as fraction Emissions (fossil, calculated Memo-Item: Biomass emissis Energy content (calculated) Error messages (emissions) Name of further source stre Further source streams - 2 Amount imported or exported Memo-Item: Biomass emissis Energy content (as fraction Emissions (fossil, calculated Memo-Item: Biomass emissis Energy content (calculated) Error messages (emissions) Amount of GHG imported of GHG imported or exported Measurable heat import to For attributing emissions from coget	enchmark: , the attributable e sions (DirEm* (MP sions (DirEm*) allation and releva reams imported to rreams - 1: 1 d applicable n of carbon) 1) reams - 2: 2 d applicable n of carbon) 1) or exported as fee	Unit t CO2e/year unit emission fau Unit TJ / year t CO2 / TJ or exported frr e streams releva Unit t / year GJ / t % t CO2 / year t CO2 / year	alculated in section D	tion K.III.2 of t installation 2015 2015 2015 2015 2015 2015 2015	2016 2016 2016 2016 2016 2016	2017 2017 2017 2017 2017 2017 2017 2017	2018 2018 2018 2018 2018
required for the determi installation with product be Upon entries made below, Directly attributable emiss Directly attributable emiss Directly attributable emiss Fuel input to this sub-insta Fuel input to this sub-insta Fuel input Weighted emission factor Further internal source stre Are further imported or exported Name of further source stre Are further imported or exported Name of further source stre Are clurific value (NCV), if a Carbon content (mass %) Biomass content (as fractions Emissions (fossil, calculated) Error messages (emissions) Name of further source stre Further source streams - 2 Amount imported or exported Net calorific value (NCV), if a Carbon content (mass %) Biomass content (as fractions Emissions (fossil, calculated) Error messages (emissions) Name of further source stre Further source streams - 2 Amount imported or exported Memo-Item: Biomass emissi Energy content (calculated) Error messages (emissions) Amount of GHG imported of GHG imported or exported Measurable heat import to	enchmark: , the attributable e sions (DirEm* (MP sions (DirEm*) allation and releva reams imported to rreams - 1: 1 d applicable n of carbon) 1) reams - 2: 2 d applicable n of carbon) 1) or exported as fee	Unit t CO2e/year unit emission fau Unit TJ / year t CO2 / TJ or exported fro e streams releve Unit t / year GJ / t % t CO2 / year t CO2 / year TJ / year GJ / t % t CO2 / year t CO2 / year	alculated in sec s)) to this sub-in 2014 ctor 2014 2014 2014 2014 2014 2014 2014	tallation 2015 2015 2015 2015 2015 2015 2015 2015	2016 2016 2016 2016 2016 2016 2016	2017 2017 2017 2017 2017 2017	2018 2018 2018 2018 2018

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Are waste gases relevant for this sub-installation?	Specific EF (imported heat)	t CO2 / TJ	0011	0015	0010	00.1-	
Net heat imported from nitric acid sub: TJ / year Out Out <thout< th=""> Out Out<td></td><td></td><td>2014</td><td>2015</td><td>2016</td><td>2017</td><td>2018</td></thout<>			2014	2015	2016	2017	2018
Total het exported Unit 2014 2015 2016 2017 2018 Specific EF (exported heat) t CO2 / TJ Image: Constraint of the sub-installation Are waste gases produced: Image: Constraint of the sub-installation Image: Constraint of the sub-installation Image: Constraint of the sub-installation Are waste gases produced: Image: Constraint of the sub-installation Image: Constraint of the sub-installation Image: Constraint of the sub-installation Net calorific value GJ/1000Nm3 Image: Constraint of the sub-installation Image: Constraint of the sub-installation Specific EF (produced waste gas) t CO2 / TJ Image: Constraint of the sub-installation Image: Constraint of the sub-installation Specific EF (conduced waste gas) t CO2 / TJ Image: Constraint of the sub-installation Image: Constraint of the sub-installation Specific EF (conduced waste gas) t CO2 / TJ Image: Constraint of the sub-installation Image: Constraint of the sub-installation Specific EF (monumed waste gas) t CO2 / TJ Image: Constraint of the sub-installatinsub-installatinsub-installation Image: Constraint							
Net heat exported T.J. year Image: Control of the cont							
Specific EF (exported heat) t CO2 / TJ Image: CO2 / TJ Image: CO2 / TJ Are waste gases relevant for this sub-installation?			2014	2015	2016	2017	2018
Waste gase balance for this sub-installation?							
Amounts produced 1000Nm3/year Image: consumed	Specific EF (exported heat)	t CO2 / TJ					
Unit 2014 2015 2016 2017 2018 Amounts consumed 1000/km3/kear .<	Are waste gases relevant for this sub-i Types of waste gases produced: Amounts produced Net calorific value Waste gas produced	Unit Unit 1000Nm3/year GJ/1000Nm3 TJ / year	2014	2015	2016	2017	2018
Unit 2014 2015 2016 2017 2018 Amounts consumed 1000Nm3/vear	Types of waste gases consumed:						
Amounts consumed 1000Nm3/vear Image: Consumed Construction of the con	Types of waste gases consumed.						
Inter calorific value GJ/1000Nm3 Image: Construct of the second	Amounto consumed		2014	2015	2016	2017	2018
Waste gas consumed T J / year Image: Consume dependence of the co							
Specific EF (consumed waste gass) 1 CO2 / TJ Image: Constraint of the system of the s							
Types of waste gases flared: Unit 2014 2015 2016 2017 2018 Amounts flared 1000Nm3/year 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Unit 2014 2015 2016 2017 2018 Amounts flared 1000Nm3/year		1002/10					
Unit 2014 2015 2016 2017 2018 Amounts flared 1000Nm3/year	Types of waste gases flared:						
Amounts flared 1000Nm3/year Image: constraint of the second of the seco	•	Unit	2014	2015	2016	2017	2010
Net calorific value GJ/1000Nm3 Image: Constraint of the system of the s	Amounts flared		2014	2013	2010	2017	2018
Waste gas flated TJ / year Image: Constraint of pulp produced Specific EF (flared waste gas) t CO2 / TJ Image: Constraint of pulp produced Types of waste gases imported: Image: Constraint of pulp produced Image: Constraint of pulp produced Met calorific value GJ/1000Nm3 Image: Constraint of pulp produced Image: Constraint of pulp produced Types of waste gases exported: Image: Constraint of pulp produced Image: Constraint of pulp produced Import or export of intermediate products covered by product benchmarks Is tonnes Image: Constraint of pulp produced Import amounts: Unit 2014 2015 2016 2017 2018 Import or export of intermediate products covered by product benchmarks Is tonnes Import of 2017 2018 Import of export of intermediate products covered by product benchmarks? Import of 2017 2018 Is there any import or export of intermediate products covered by product benchmarks? Import 2016 2017 2018 Imported amounts: Unit 2014 2015 2016 2017 2018							
Specific EF (flared waste gas) t CO2 / TJ Image: CO2 / TJ Image: CO2 / TJ Types of waste gases imported:							
Types of waste gases imported:							
Net calorific value GJ/1000Nm3 Image: Colorities of the set			2014	2015	2016	2017	2018
Waste gas imported TJ / year Imported waste gas TJ / year Specific EF (imported waste gas) t CO2 / TJ Imported waste gases exported: Imported waste gases exported 2016 2017 2018 Amounts exported 1000Nm3/year Imported waste gase 2016 2017 2018 Amounts exported 1000Nm3/year Imported waste gas Import gas <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Specific EF (imported waste gas) t CO2 / TJ Imported waste gases exported: Types of waste gases exported: Unit 2014 2015 2016 2017 2018 Amounts exported 1000Nm3/year 0 <td0< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td0<>							
Types of waste gases exported: Unit 2014 2015 2016 2017 2018 Amounts exported 1000Nm3/year							
Unit 2014 2015 2016 2017 2018 Amounts exported 1000Nm3/year	Specific EF (Imported waste gas)	1002/1J					
Amounts exported 1000Nm3/year Image: constraint of the product source of the product benchmarks? Import or export of intermediate products covered by product benchmarks? Image: constraint of the product source of the product benchmarks? Import amounts: Unit 2014 2015 2016 2017 2018 Exported amounts: Unit 2014 2015 2016 2017 2018 Import or export of intermediate products covered by product benchmarks? Image: constraint of the products covered by product benchmarks? Image: constraint of the products covered by product benchmarks? Imported amounts: Unit 2014 2015 2016 2017 2018	Types of waste gases exported:	Unit	2014	2015	2016	2017	2018
Net calorific value GJ/1000Nm3 Image: Constraint of the second seco	Amounts exported		2014	2013	2010	2017	2010
Waste gas exported TJ / year Image: marked constraints TJ / year Image: marked constraints TO2 / TJ Image: marked constraints TO2 / TJ Image: marked constraints TO18 TO18 TO18 TO18 TO18 TO18 TO18 TO18 TO19 TO19 TO18 TO18 TO19							
Specific EF (exported waste gas) t CO2 / TJ Image: Constraint of the constraint o							
Electricity production Electricity production Unit 2014 2015 2016 2017 2018 Electricity produced MWh / year Import of pulp produced Import of pulp produced Import or export of intermediate products covered by product benchmarks? Import or export of intermediate products covered by product benchmarks? Imported amounts: Unit 2014 2015 2016 2017 2018	Specific EF (exported waste gas)						
Electricity produced MWh / year Total amount of pulp produced Total amount of pulp produced Import or export of intermediate products covered by product benchmarks Is there any import or export of intermediate products covered by product benchmarks?		Unit	2014	2015	2016	2017	2018
Total amount of pulp produced tonnes output output Import or export of intermediate products covered by product benchmarks?	Electricity produced		_014				2010
tonnes Import or export of intermediate products covered by product benchmarks Is there any import or export of intermediate products covered by product benchmarks? Imported amounts: Unit 2014 2015 2016 2017 2018 tonnes							
Import or export of intermediate products covered by product benchmarks Is there any import or export of intermediate products covered by product benchmarks? Imported amounts: Unit 2014 2015 2016 2017 2018 tonnes tonnes Imported amounts: Unit 2014 2015 2016 2017 2018 tonnes tonnes Imported amounts: Unit 2014 2015 2016 2017 2018 tonnes Imported amounts: Unit 2014 2015 2016 2017 2018	Total amount of pulp produced						
Is there any import or export of intermediate products covered by product benchmarks? Imported amounts: Imported amounts: Imported amounts: 2016 2017 2018 Imported amounts: tonnes 2016 2017 2018 Imported amounts: tonnes <		tonnes					
Is there any import or export of intermediate products covered by product benchmarks? Unit 2015 2016 2017 2018 Imported amounts: Unit 2014 2015 2016 2017 2018 tonnes tonnes Imported amounts: Imported amounts: Imported amounts: 2016 2017 2018 Exported amounts: Unit 2014 2015 2016 2017 2018							
tonnes 2014 2016 2010 <	Is there any import or export of intermedia	te products covered by p	product benchma				
tonnes Construction Construction <thconstruction< th=""> Construction</thconstruction<>	imported amounts:		2014	2015	2016	2017	2018
Exported amounts: Unit 2014 2015 2016 2017 2018 tonnes							
tonnes de la deservición de la							
	Exported amounts:		2014	2015	2016	2017	2018
tonnes							
		tonnes					
	Description of the intermediate products i	mported or exported					

6 Sub-installation with product benchmark:

Detailed instructions for data entries in this tool can be found at the first copy of this tool. (F.I.1)

(a) Historic activity levels

	Annual activity levels:	Unit	2014	2015	2016	2017	2018	
i.		tonnes						
ii.	From sheet "H_SpecialBM":	tonnes						
iii.	Values used for calculation:	tonnes						
(b)	Special reporting requirements:	-						

(b) Special reporting requirements:

Further correction factors

(c)	Exchangeability of fuel and electricity:							
	Parameter	Unit	2014	2015	2016	2017	2018	
i.	Direct emissions	t CO2 / year						
ii.	Net imported heat	TJ / year						
iii.	Relevant electricity consumption	MWh / year						
iv.	Total direct emissions	t CO2 / year						
٧.	Indirect emissions	t CO2 / year						

(d) Heat imported from non-ETS installations or entities:

Parameter	Unit	2014	2015	2016	2017	2018	
 Measurable heat imported from non-ETS: 	TJ / year						
ii. Consistency check with sheet "E_Energy	%						
flows":							

Π

iii. Consistency check with point (n):	%			

Production details

(e) Identification of products included in this product benchmark sub-installation A list of PRODCOM 2010 codes can be found at: http://ec.europa.eu/eurostat/ramon/nomenclatures/index.clm?TargetUrl=LST_CLS_DLD&StrNom=PRD_2010&StrLanguageCode=EN&StrLayoutCode=HIERARCHIC

(f) Individual production levels of products included in this product benchmark sub-installation

		Name of product or group of products	Unit	2014	2015	2016	2017	2018
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
	Sum of produc	tion levels						

installation with product benchmark:						
Upon entries made below, the attributa	ble emissions are cal	culated in section	on K.III.2 of the s	ummary sheet.		
Directly attributable emissions (DirEm*	(MP source streams)) to this sub-inst	allation			
	I			امدمه		
Directly attributable emissions (DirEm*) Unit t CO2e/year	2014	2015	2016	2017	2018
	10026/year	_		I		
Fuel input to this sub-installation and r	elevant emission facto					
Firstingut	Unit	2014	2015	2016	2017	2018
Fuel input Weighted emission factor	TJ/year t CO2/TJ					
	1002/13		Į	<u>.</u>	Į	
Further internal source streams import						
Are further imported or exported internal s	ource streams relevant	for this sub-insta	Illation?			
Name of further source streams - 1:			<u>.</u>			
Further source streams - 1	Unit	2014	2015	2016	2017	2018
Amount imported or exported	t / year					
Net calorific value (NCV), if applicable Carbon content (mass %)	GJ / t %					
Biomass content (as fraction of carbon)	%					
Emissions (fossil, calculated)	t CO2 / year					
Memo-Item: Biomass emissions	t CO2 / year					
Energy content (calculated)	TJ / year					
Error messages (emissions)						
Name of further source streams - 2:						
Further source streams - 2	Unit	2014	2015	2016	2017	2018
Amount imported or exported	t / year					
Net calorific value (NCV), if applicable	GJ/t					
Carbon content (mass %)	%					
Biomass content (as fraction of carbon) Emissions (fossil, calculated)	%					
Memo-Item: Biomass emissions	t CO2 / year t CO2 / year					
Energy content (calculated)	TJ / year					
Error messages (emissions)						
Amount of GHG imported or exported a	is feedstock Unit	2014	2015	2016	2017	2018
GHG imported or exported	t CO2e/year	2014	2013	2010	2017	2010
Measurable heat import to and export f For attributing emissions from cogeneration (CHP) to		ion				
			has to be used			
Total heat imported	1	tool" in section D.III.		2016	2017	2018
Total heat imported Net heat imported	Unit		has to be used. 2015	2016	2017	2018
Total heat imported Net heat imported Specific EF (imported heat)	1	tool" in section D.III.		2016	2017	2018
Net heat imported	Unit TJ / year	tool" in section D.III.		2016	2017	
Net heat imported Specific EF (imported heat)	Unit TJ / year t CO2 / TJ	2 tool" in section D.III. 1 2014	2015			
Net heat imported Specific EF (imported heat) Special heat import	Unit TJ/year t CO2/TJ Unit	2 tool" in section D.III. 1 2014	2015			
Net heat imported Special heat import Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported	Unit TJ/year t CO2/TJ Unit TJ/year TJ/year Unit	2 tool" in section D.III. 1 2014	2015			2018
Net heat imported Specific EF (imported heat) Special heat import Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported Net heat exported	Unit TJ/year t CO2/TJ Unit TJ/year Unit Unit TJ/year	2 tool" in section D.III. 1 2014 2014 2014	2015 2015	2016	2017	2018 2018 2018 2018
Net heat imported Special heat import Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported	Unit TJ/year t CO2/TJ Unit TJ/year TJ/year Unit	2 tool" in section D.III. 1 2014 2014 2014	2015 2015	2016	2017	
Net heat imported Specific EF (imported heat) Special heat import Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported Net heat exported Specific EF (exported heat)	Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year Unit TJ / year t CO2 / TJ	2 tool" in section D.III. 1 2014 2014 2014	2015 2015	2016	2017	2018
Net heat imported Specific EF (imported heat) Special heat import Net heat imported from pulp Net heat exported Net heat exported Specific EF (exported heat) Waste gas balance for this sub-installage	Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year Unit TJ / year Unit TJ / year t CO2 / TJ	2 tool" in section D.III. 1 2014 2014 2014	2015 2015	2016	2017	2018
Net heat imported Specific EF (imported heat) Special heat import Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported Net heat exported Specific EF (exported heat) Waste gas balance for this sub-installa Are waste gases relevant for this sub-in	Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year Unit TJ / year Unit TJ / year t CO2 / TJ	2 tool" in section D.III. 1 2014 2014 2014	2015 2015	2016	2017	2018
Net heat imported Specific EF (imported heat) Special heat import Net heat imported from pulp Net heat exported Net heat exported Specific EF (exported heat) Waste gas balance for this sub-installage	Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year Unit TJ / year Unit TJ / year t CO2 / TJ	2 tool" in section D.III. 1 2014 2014 2014	2015 2015	2016	2017	2018
Net heat imported Specific EF (imported heat) Special heat import Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported Net heat exported Specific EF (exported heat) Waste gas balance for this sub-installa Are waste gases relevant for this sub-in Types of waste gases produced:	Unit	2 tool" in section D.III. 1 2014 2014 2014	2015 2015	2016	2017	2018
Net heat imported Specific EF (imported heat) Special heat import Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported Net heat exported Specific EF (exported heat) Waste gas balance for this sub-installa Are waste gases relevant for this sub-in Types of waste gases produced: Amounts produced	Unit TJ / year t CO2 / TJ Unit TJ / year Unit TJ / year t CO2 / TJ tion nstallation?	20014 2014 2014 2014 2014 2014 2014	2015 2015 2015 2015	2016	2017	2018
Net heat imported Specific EF (imported heat) Special heat import Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported Net heat exported Specific EF (exported heat) Waste gas balance for this sub-installa Are waste gases relevant for this sub-in Types of waste gases produced: Amounts produced Net calorific value	Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year Unit TJ / year t CO2 / TJ Unit TJ / year ton nstallation? Unit 1000Nm3/year GJ/1000Nm3	20014 2014 2014 2014 2014 2014 2014	2015 2015 2015 2015	2016	2017	2018
Net heat imported Special heat import Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported Net heat exported Specific EF (exported heat) Waste gas balance for this sub-installa Are waste gases relevant for this sub-installa Are waste gases relevant for this sub-installa Amounts produced Net calorific value Waste gas produced	Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year Unit TJ / year t CO2 / TJ Unit TJ / year t CO2 / TJ tion nstallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year	20014 2014 2014 2014 2014 2014 2014	2015 2015 2015 2015	2016	2017	2018
Net heat imported Specific EF (imported heat) Special heat import Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported Net heat exported Specific EF (exported heat) Waste gas balance for this sub-installa Are waste gases relevant for this sub-in Types of waste gases produced: Amounts produced Net calorific value	Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year Unit TJ / year t CO2 / TJ Unit TJ / year ton nstallation? Unit 1000Nm3/year GJ/1000Nm3	20014 2014 2014 2014 2014 2014 2014	2015 2015 2015 2015	2016	2017	2018
Net heat imported Special heat import Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported Net heat exported Specific EF (exported heat) Waste gas balance for this sub-installa Are waste gases relevant for this sub-installa Are waste gases relevant for this sub-installa Amounts produced Net calorific value Waste gas produced	Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year Unit TJ / year t CO2 / TJ Unit TJ / year t CO2 / TJ tion nstallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year	20014 2014 2014 2014 2014 2014 2014	2015 2015 2015 2015	2016	2017	2018
Net heat imported Specific EF (imported heat) Specific EF (imported heat) Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported Net heat exported Specific EF (exported heat) Waste gas balance for this sub-installa Are waste gases relevant for this sub-in Types of waste gases produced: Amounts produced Net calorific value Waste gas produced Specific EF (produced waste gas)	Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year Unit TJ / year t CO2 / TJ Unit TJ / year t CO2 / TJ tion nstallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year	20014 2014 2014 2014 2014 2014 2014	2015 2015 2015 2015	2016	2017	2018 2018 2018 2018
Net heat imported Special heat import Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported Net heat exported Specific EF (exported heat) Waste gas balance for this sub-installa Are waste gases relevant for this sub-installa Are waste gases relevant for this sub-installa Are use of waste gases produced: Amounts produced Net calorific value Waste gas produced Specific EF (produced waste gas) Types of waste gases consumed:	Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year tJ / year t CO2 / TJ Unit tion nstallation? Unit 1000Nm3/year t CO2 / TJ t CO2 / TJ	2014 2014 2014 2014 2014 2014 2014 2014	2015 2015 2015 2015 2015 2015	2016 2016 2016 2016	2017 2017 2017 2017 2017	2018 2018 2018 2018
Net heat imported Special heat import Special heat import Net heat imported from pulp Net heat imported from nitric acid sub- Total heat exported Specific EF (exported heat) Waste gas balance for this sub-installa Are waste gases relevant for this sub-installa Are waste gases relevant for this sub-installa Are usate gases produced: Amounts produced Net calorific value Waste gas produced Specific EF (produced waste gas) Types of waste gases consumed:	Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year Unit TJ / year t CO2 / TJ Unit TJ / year t CO2 / TJ	2014 2014 2014 2014 2014 2014 2014 2014	2015 2015 2015 2015 2015 2015	2016 2016 2016 2016	2017 2017 2017 2017 2017	2018

xii.	Types of waste gases flared:						
		Unit	2014	2015	2016	2017	2018
dii.	Amounts flared	1000Nm3/year			2010		
	Net calorific value	GJ/1000Nm3					
xv.	Waste gas flared	TJ / year					
	Specific EF (flared waste gas)	t CO2 / TJ					
/ii.	Types of waste gases imported:						
		Unit	2014	2015	2016	2017	2018
iii.	Amounts imported	1000Nm3/year					
ix.	Net calorific value	GJ/1000Nm3					
xx.	Waste gas imported	TJ / year					
xi.	Specific EF (imported waste gas)	t CO2 / TJ					
di.	Types of waste gases exported:						
		Unit	2014	2015	2016	2017	2018
dii.	Amounts exported	1000Nm3/year					
	Net calorific value	GJ/1000Nm3					
	Waste gas exported	TJ / year					
	Specific EF (exported waste gas)	t CO2 / TJ					
			,	<u> </u>			
ı)	Electricity production						
.,		Unit	2014	2015	2016	2017	2018
	Electricity produced	MWh / year					
				•		<u> </u>	
)	Total amount of pulp produced						
•		tonnes					
	Import or export of intermediate produ				1		
١.	Is there any import or export of intermedia	ate products covered	by product bench	nmarks?			
	Imported amounts:	Unit	2014	2015	2016	2017	2018
		tonnes					
ii.		tonnes					
		l luit	0044	0045	0040	0047	
iii.	Exported amounts:	Unit	2014	2015	2016	2017	2018
	Exported amounts:	Unit tonnes tonnes	2014	2015	2016	2017	2018

7 Sub-installation with product benchmark:

Detailed instructions for data entries in this tool can be found at the first copy of this tool. (F.I.1)

(a) Historic activity levels

. ,	Annual activity levels:	Unit	2014	2015	2016	2017	2018	
i.		tonnes						
ii.	From sheet "H_SpecialBM":	tonnes						
iii.	Values used for calculation:	tonnes						
(b)	Special reporting requirements:							

Further correction factors

(c)	Exchangeability of fuel and electricity:								
	Parameter	Unit	2014	2015	2016	2017	2018		
i.	Direct emissions	t CO2 / year							
ii.	Net imported heat	TJ / year							
iii.	Relevant electricity consumption	MWh / year							
iv.	Total direct emissions	t CO2 / year							
٧.	Indirect emissions	t CO2 / year							
(d)	Heat imported from non-ETS installations	or entities:							
	Parameter	Unit	2014	2015	2016	2017	2018		

	Parameter	Unit	2014	2015	2016	2017	2018	
i.	Measurable heat imported from non-ETS:	TJ / year						
ii.	Consistency check with sheet "E_Energy	%						
	flows":							
iii.	Consistency check with point (n):	%						

Production details

(e) Identification of products included in this product benchmark sub-installation A list of PRODCOM 2010 codes can be found at:

http://ec.europa.eu/eurostat/ramon/nomenclatures/index.cfm?TargetUrf=LST_CLS_DLD&StrNom=PRD_2010&StrLanguageCode=EN&StrLayoutCode=HIERARCHIC

(f) Individual production levels of products included in this product benchmark sub-installation

	PRODCOM 2010	Name of product or group of products	Unit	2014	2015	2016	2017	2018
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
	Sum of product	tion levels						

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

 Sub-installation with product benchmark:

 Upon entries made below, the attributable emissions are calculated in section K.III.2 of the summary sheet.

	Unit t CO2e/year	2014	2015	2016	2017	201
Fuel input to this sub-installation and rel		I		I		
	Unit	2014	2015	2016	2017	201
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Further internal source streams imported						
Are further imported or exported internal so	urce streams relevant to	or this sub-instal	lation?			
Name of further source streams - 1:						
Further source streams - 1	Unit	2014	2015	2016	2017	201
Amount imported or exported Net calorific value (NCV), if applicable	t/year GJ/t					
Carbon content (mass %)	%					
Biomass content (as fraction of carbon)	%					
Emissions (fossil, calculated)	t CO2 / year					
Memo-Item: Biomass emissions Energy content (calculated)	t CO2 / year TJ / year					
Error messages (emissions)	107 year					
Name of further source streams - 2:						
Further source streams - 2	Unit	2014	2015	2016	2017	201
Amount imported or exported	t / year			_0.0		201
Net calorific value (NCV), if applicable	GJ/t					
Carbon content (mass %)	%					
Biomass content (as fraction of carbon) Emissions (fossil, calculated)	% t CO2 / year					
Memo-Item: Biomass emissions	t CO2 / year					
Energy content (calculated)	TJ / year					
Error messages (emissions)						
Amount of GHG imported or exported as						
GHG imported or exported	Unit t CO2e/year	2014	2015	2016	2017	201
Measurable heat import to and export fro	m this sub-installation	n				
For attributing emissions from cogeneration (CHP) to p		ol" in section D.III. h				
Total heat imported	Unit	2014	2015	2016	2017	201
Net heat imported Specific EF (imported heat)	TJ / year t CO2 / TJ					
	1					
Special heat import Net heat imported from pulp	Unit TJ / year	2014	2015	2016	2017	201
Net heat imported from nitric acid sub-	TJ / year					
Total heat exported	Unit	2014	2015	2016	2017	201
Net heat exported	TJ / year	2014	2013	2010	2017	201
Specific EF (exported heat)	t CO2 / TJ					
Specific EF (exported heat)						
Specific EF (exported heat) Waste gas balance for this sub-installation	on					
Specific EF (exported heat) Waste gas balance for this sub-installatic Are waste gases relevant for this sub-ins	on					
Specific EF (exported heat) Waste gas balance for this sub-installation	on tallation?	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installatic Are waste gases relevant for this sub-ins	on	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-inst Types of waste gases produced: Amounts produced Net calorific value	on tallation? Unit 1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installatic Are waste gases relevant for this sub-ins Types of waste gases produced: Amounts produced Net calorific value Waste gas produced	on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installatic Are waste gases relevant for this sub-ins Types of waste gases produced: Amounts produced Net calorific value Waste gas produced	on tallation? Unit 1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Types of waste gases produced: Amounts produced Net calorific value Waste gas produced Specific EF (produced waste gas)	on tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Types of waste gases produced: Amounts produced Net calorific value Waste gas produced Specific EF (produced waste gas) Types of waste gases consumed:	on tallation? Unit GJ/1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit	2014	2015	2016	2017	
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-inst Types of waste gases produced: Amounts produced Net calorific value	n tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ					
Specific EF (exported heat) Waste gas balance for this sub-installatio Are waste gases relevant for this sub-installatio Types of waste gases produced: Amounts produced Net calorific value Waste gas produced Specific EF (produced waste gas) Types of waste gases consumed: Amounts consumed Net calorific value Waste gas consumed Waste gas consumed	on tallation? Unit GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year					
Specific EF (exported heat) Waste gas balance for this sub-installatio Are waste gases relevant for this sub-installatio Types of waste gases produced: Amounts produced Net calorific value Waste gas produced Specific EF (produced waste gas) Types of waste gases consumed: Amounts consumed Net calorific value Waste gas consumed Waste gas consumed	Dn tallation? Unit GJ/1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3					
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Types of waste gases produced Amounts produced Waste gas produced Specific EF (produced waste gas) Types of waste gases consumed: Amounts consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas)	on tallation? Unit GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year					
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Types of waste gases produced Amounts produced Waste gas produced Specific EF (produced waste gas) Types of waste gases consumed: Amounts consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas)	Dn tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installatio Are waste gases relevant for this sub-inst Types of waste gases produced: Amounts produced Waste gas produced Specific EF (produced waste gas) Types of waste gases consumed: Amounts consumed Net calorific value	on tallation? Unit GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year					201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Types of waste gases produced: Amounts produced Net calorific value Waste gas produced Specific EF (produced waste gas) Types of waste gases consumed: Amounts consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value	Dn tallation? Unit GJ/1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit Unit 1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Amounts produced Maste gas produced Specific EF (produced waste gas) Types of waste gases consumed: Amounts consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas flared Waste gas flared	Dn tallation? Unit GJ/1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Amounts produced Maste gas produced Specific EF (produced waste gas) Types of waste gases consumed: Amounts consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas flared Waste gas flared	Dn tallation? Unit GJ/1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Are waste gases relevant for this sub-installation Are waste gases relevant for this sub-installation (Are waste gases produced) Amounts produced Waste gas produced Specific EF (produced waste gas) Types of waste gases consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas)	Dn tallation? Unit GJ/1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Types of waste gases produced: Amounts produced Net calorific value Waste gas produced Specific EF (produced waste gas) Types of waste gases consumed: Amounts consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported:	Dn tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Amounts produced Net calorific value Waste gas consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts flared Net calorific value	Dn tallation? Unit GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year CO2 / TJ	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installatio Are waste gases relevant for this sub-installatio Types of waste gases produced: Amounts produced Met calorific value Waste gas produced waste gas) Types of waste gases consumed: Amounts consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported	Dn tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Are waste gases relevant for this sub-installation Types of waste gases produced: Amounts produced Net calorific value Waste gas produced Specific EF (produced waste gas) Types of waste gases consumed: Amounts consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value	Dn tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year dJ/1000Nm3	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installatio Are waste gases relevant for this sub-installatio Types of waste gases produced: Amounts produced Met calorific value Waste gas produced waste gas) Types of waste gases consumed: Amounts consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported	Dn tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year	2014	2015	2016	2017	201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Amounts produced Net calorific value Waste gas onsumed Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported:	Dn tallation? Unit GJ/1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	201 201 201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Amounts produced Net calorific value Waste gas consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts imported Specific EF (imported waste gas) Types of waste gases exported:	Dn tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ	2014	2015 2015 2015 2015 2015	2016	2017	201 201 201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Amounts produced Net calorific value Waste gas consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Specific EF (imported waste gas)	Dn tallation? Unit GJ/1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ	2014	2015 2015 2015 2015 2015	2016	2017	201 201 201 201 201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Amounts produced Net calorific value Waste gas consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas flared Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts imported Specific EF (imported waste gas) Types of waste gases exported:	Dn tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ	2014	2015 2015 2015 2015 2015	2016	2017	201 201 201
Specific EF (exported heat) Waste gas balance for this sub-installation Are waste gases relevant for this sub-installation Amounts produced Net calorific value Waste gas produced Specific EF (produced waste gas) Types of waste gases consumed: Amounts consumed Net calorific value Waste gas consumed Specific EF (consumed waste gas) Types of waste gases flared: Amounts flared Net calorific value Waste gas imported Specific EF (flared waste gas) Types of waste gases imported: Amounts imported Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported	Dn tallation? Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ	2014	2015 2015 2015 2015 2015	2016	2017	201 201 201

(n) Total amount of pulp produced

8

		tonnes					
(o)	Import or export of intermediate products co	overed by prod	uct benchmark	s			
	Is there any import or export of intermediate pro						
	Imported amounts:	Unit	2014	2015	2016	2017	2018
ii.		tonnes					
iii.		tonnes					
	Exported amounts:	Unit	2014	2015	2016	2017	2018
iv. v.		tonnes tonnes					
	Description of the intermediate products importe						
vi.	Description of the internediate products importe	ed of exported					
Sub-	installation with product benchmark:						
	Detailed instructions for data entries in this	tool can be fou	und at the first o	copy of this too	<u>ol. (F.I.1)</u>		
(a)	Historic activity levels			_			_
	Annual activity levels:	Unit	2014	2015	2016	2017	2018
i. 	From sheet "H_SpecialBM":	tonnes tonnes					
	Values used for calculation:	tonnes					
(5)	Special reporting requirements:						
urtl	her correction factors						
(c)	Exchangeability of fuel and electricity:						
	Parameter	Unit	2014	2015	2016	2017	2018
	Direct emissions	t CO2 / year					
	Net imported heat	TJ / year					
	Relevant electricity consumption Total direct emissions	MWh / year t CO2 / year					
	Indirect emissions	t CO2 / year					
	Heat imported from non-ETS installations or						
()		J					
	Parameter	Unit	2014	2015	2016	2017	2018
	Measurable heat imported from non-ETS:	TJ / year					
11.	Consistency check with sheet "E_Energy flows":	%					
iii.	Consistency check with point (n):	%					
(e)	luction details Identification of products included in this pr A list of PRODCOM 2010 codes can be found at: http://ce.europa.eu/eurostat/ramon/nomenclatures/index.cfm	n?TargetUrl=LST_C	LS DLD&StrNom=F	PRD 2010&StrLang	-	ayoutCode=HIERAF	RCHIC
(e)	Identification of products included in this products included in this products inst of PRODCOM 2010 codes can be found at: http://ec.europa.eu/eurostat/ramor/nomenclatures/index.cfm Individual production levels of products incl PRODCOM Name of product or group of	n?TargetUrl=LST_C	LS DLD&StrNom=F	PRD 2010&StrLang	-	ayoutCode=HIERAI 2017	<u>RCHIC</u> 2018
(e)	Identification of products included in this pr A list of PRODCOM 2010 codes can be found at: http://ec.europa.eu/eurostat/ramon/nomenclatures/index.clm Individual production levels of products incl	n?TargetUrl=LST_C uded in this pr	<u>CLS_DLD&StrNom=F</u> oduct benchma	PRD 2010&StrLange ark sub-installa	ition		
(e) (f)	Identification of products included in this products included in this products inst of PRODCOM 2010 codes can be found at: http://ec.europa.eu/eurostat/ramor/nomenclatures/index.cfm Individual production levels of products incl PRODCOM Name of product or group of	n?TargetUrl=LST_C uded in this pr	<u>CLS_DLD&StrNom=F</u> oduct benchma	PRD 2010&StrLange ark sub-installa	ition		
(e) (f) 1 2 3	Identification of products included in this products included in this products inst of PRODCOM 2010 codes can be found at: http://ec.europa.eu/eurostat/ramor/nomenclatures/index.cfm Individual production levels of products incl PRODCOM Name of product or group of	n?TargetUrl=LST_C uded in this pr	<u>CLS_DLD&StrNom=F</u> oduct benchma	PRD 2010&StrLange ark sub-installa	ition		
(e) (f) 1 2 3 4	Identification of products included in this products included in this products inst of PRODCOM 2010 codes can be found at: http://ec.europa.eu/eurostat/ramor/nomenclatures/index.cfm Individual production levels of products incl PRODCOM Name of product or group of	n?TargetUrl=LST_C uded in this pr	<u>CLS_DLD&StrNom=F</u> oduct benchma	PRD 2010&StrLange ark sub-installa	ition		
(e) (f) 1 2 3	Identification of products included in this products included in this products inst of PRODCOM 2010 codes can be found at: http://ec.europa.eu/eurostat/ramor/nomenclatures/index.cfm Individual production levels of products incl PRODCOM Name of product or group of	n?TargetUrl=LST_C uded in this pr	<u>CLS_DLD&StrNom=F</u> oduct benchma	PRD 2010&StrLange ark sub-installa	ition		
(e) (f) 1 2 3 4 5 6 7	Identification of products included in this products included in this products inst of PRODCOM 2010 codes can be found at: http://ec.europa.eu/eurostat/ramor/nomenclatures/index.cfm Individual production levels of products incl PRODCOM Name of product or group of	n?TargetUrl=LST_C uded in this pr	<u>CLS_DLD&StrNom=F</u> oduct benchma	PRD 2010&StrLange ark sub-installa	ition		
(e) (f) 1 2 3 4 5 6 7 8	Identification of products included in this products included in this products inst of PRODCOM 2010 codes can be found at: http://ec.europa.eu/eurostat/ramor/nomenclatures/index.cfm Individual production levels of products incl PRODCOM Name of product or group of	n?TargetUrl=LST_C uded in this pr	<u>CLS_DLD&StrNom=F</u> oduct benchma	PRD 2010&StrLange ark sub-installa	ition		
(e) (f) 1 2 3 4 5 6 7	Identification of products included in this products included in this products inst of PRODCOM 2010 codes can be found at: http://ec.europa.eu/eurostat/ramor/nomenclatures/index.cfm Individual production levels of products incl PRODCOM Name of product or group of	n?TargetUrl=LST_C uded in this pr	<u>CLS_DLD&StrNom=F</u> oduct benchma	PRD 2010&StrLange ark sub-installa	ition		
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ı. <u>-</u>	Net calorific value (NCV), if applicable Carbon content (mass %)	GJ / t %					
	Biomass content (as fraction of carbon)	%					
	Emissions (fossil, calculated)	t CO2 / year					
	Memo-Item: Biomass emissions	t CO2 / year					
	Energy content (calculated)	TJ / year					
1.	Error messages (emissions)	L					
	Amount of GHG imported or exported on	foodstock					
	Amount of GHG imported or exported as	Unit	2014	2015	2016	2017	2018
-	GHG imported or exported	t CO2e/year	2014	2015	2010	2017	2010
-		(0 0 2 0, y 0 0.					
)	Measurable heat import to and export fro	m this sub-installa	ation				
	For attributing emissions from cogeneration (CHP) to pr			.III. has to be used.			
	Total heat imported	Unit	2014	2015	2016	2017	2018
i	Net heat imported	TJ / year					
i	Specific EF (imported heat)	t CO2 / TJ					
	Special heat import	Unit	2014	2015	2016	2017	2018
	Net heat imported from pulp	TJ / year		2010			
	Net heat imported from nitric acid sub-	TJ / year					
	Total heat exported	Unit	2014	2015	2016	2017	2018
	Net heat exported	TJ / year	2014	2015	2016	2017	2010
	Specific EF (exported heat)	t CO2 / TJ					
-		(002/1J					
	Waste gas balance for this sub-installation	on					
					r		
·	Are waste gases relevant for this sub-ins	tailation?					
	Types of waste gases produced:						
		Unit	2014	2015	2016	2017	2018
C	Amounts produced	1000Nm3/year	2014	2013	2010	2017	2010
	Net calorific value	GJ/1000Nm3					
	Waste gas produced	TJ / year					
	Specific EF (produced waste gas)	t CO2 / TJ					
Ī							
	Types of waste gases consumed:						
		Unit	2014	2015	2016	2017	2018
-	Amounts consumed	1000Nm3/year	2014	2015	2016	2017	2010
	Net calorific value	GJ/1000Nm3					
-	Waste gas consumed	TJ / year					
	Specific EF (consumed waste gas)	t CO2 / TJ					
		(002/10			Į		
	Types of waste gases flared:	Ī					
	.,,	11-14	0044	0045	0010	0047	0010
-	Amounts flared	Unit 1000Nm3/year	2014	2015	2016	2017	2018
	Amounts flared	1000Nm3/year					
	Net calorific value	GJ/1000Nm3					
	Waste gas flared Specific EF (flared waste gas)	TJ / year t CO2 / TJ					
-	opeonie Li (naieu wasie yas)	(CO2/1J					
	Types of waste gases imported:	Г					
	. Jess of music guods imported.						
		Unit	2014	2015	2016	2017	2018
	A manufacture incompany and a	1000Nm3/year					
	Amounts imported						
-	Net calorific value	GJ/1000Nm3					
-	Net calorific value Waste gas imported	GJ/1000Nm3 TJ / year					
	Net calorific value	GJ/1000Nm3					
	Net calorific value Waste gas imported Specific EF (imported waste gas)	GJ/1000Nm3 TJ / year					
	Net calorific value Waste gas imported	GJ/1000Nm3 TJ / year t CO2 / TJ					
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported:	GJ/1000Nm3 TJ / year t CO2 / TJ Unit	2014	2015	2016	2017	2018
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year	2014	2015	2016	2017	2018
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	2018
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year	2014	2015	2016	2017	2018
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3	2014	2015	2016	2017	2018
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas)	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year	2014	2015	2016	2017	2018
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ					
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas) Electricity production	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit	2014	2015	2016	2017	2018
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas) Electricity production	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ					
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas) Electricity production Electricity produced	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit					
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas) Electricity production Electricity produced	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit					
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas) Electricity production Electricity produced	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit MWh / year					
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Vet calorific value Waste gas exported Specific EF (exported waste gas) Electricity production Electricity produced Total amount of pulp produced mport or export of intermediate products	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit MWh / year tonnes	2014 Luct benchmark	2015 s			
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas)	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit MWh / year tonnes	2014 Luct benchmark	2015 s			
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas) Electricity production Electricity produced Total amount of pulp produced Import or export of intermediate products Is there any import or export of intermediate	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit MWh / year tonnes covered by produ	2014 uct benchmark	2015 s marks?	2016	2017	2018
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas) Electricity production Electricity produced Total amount of pulp produced Import or export of intermediate products	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit MWh / year tonnes covered by produ products covered b	2014 Luct benchmark	2015 s			
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	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas) Electricity production Electricity produced Total amount of pulp produced Import or export of intermediate products Is there any import or export of intermediate Imported amounts:	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit MWh / year t connes covered by produ products covered b Unit tonnes tonnes	2014 uct benchmark by product benc 2014	2015 s 2015 2015	2016	2017	2018
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas) Electricity production Electricity produced Total amount of pulp produced Import or export of intermediate products Is there any import or export of intermediate	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit MWh / year tonnes covered by produ products covered b Unit tonnes tonnes tonnes	2014 uct benchmark	2015 s marks?	2016	2017	2018
	Net calorific value Waste gas imported Specific EF (imported waste gas) Types of waste gases exported: Amounts exported Net calorific value Waste gas exported Specific EF (exported waste gas) Electricity production Electricity produced Total amount of pulp produced Import or export of intermediate products Is there any import or export of intermediate Imported amounts:	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit MWh / year tonnes covered by produ products covered b Unit tonnes tonnes Unit tonnes	2014 uct benchmark by product benc 2014	2015 s 2015 2015	2016	2017	2018
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	let calorific value Vaste gas imported Specific EF (imported waste gas) 'ypes of waste gases exported: Amounts exported let calorific value Vaste gas exported Specific EF (exported waste gas) Electricity production Electricity produced Fotal amount of pulp produced mport or export of intermediate products s there any import or export of intermediate systematic amounts: Exported amounts:	GJ/1000Nm3 TJ / year t CO2 / TJ Unit 1000Nm3/year GJ/1000Nm3 TJ / year t CO2 / TJ Unit MWh / year t cO2 / TJ Unit tonnes covered by produ products covered b Unit tonnes tonnes tonnes	2014 uct benchmark by product benc 2014	2015 s nmarks? 2015	2016	2017	2018
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(a)	Historic activity levels							
	Annual activity levels:	Unit	2014	2015	2016	2017	2018	
i.		tonnes						
ii.	From sheet "H_SpecialBM":	tonnes						
iii.	Values used for calculation:	tonnes						
(b)	Special reporting requirements:							

(b) Special reporting requirements:

NIMsBL_template_Final draft_20190125 transl. final.xls; F_ProductBM

Further correction factors

		and the set of the state of the state of the set						
(c)	Exchangeabili	ty of fuel and electricity:						
,	Parameter		Unit	2014	2015	2016	2017	2018
i	Direct emission	s	t CO2 / year					
	Net imported he		TJ / year					
		icity consumption	MWh / year					
	Total direct emi							
			t CO2 / year					
v.	Indirect emission	ons	t CO2 / year					
(b	Heat imported	from non-ETS installations	or entities:					
	Parameter		Unit	2014	2015	2016	2017	2018
:		at imported from non-ETS:		2014	2010	2010	2011	2010
			TJ / year					
п.		eck with sheet "E_Energy	%					
	flows":							
III.	Consistency ch	eck with point (n):	%					
oc	luction details	5						
	Identification (of products included in this	product benchmark	sub-installation				
"		1 2010 codes can be found at:	product benchinark	Sub-installation				
		/eurostat/ramon/nomenclatures/index.	cfm2Tarnetl Irl-I ST_CLS_	DI D& StrNom-PRD	2010& Strl anguage	Code-EN& Strl a	voutCode-HIERARC	нс
	<u></u>				20100012anguago.	0000-211001220		
)	Individual proc	duction levels of products in	ncluded in this produ	uct benchmark	sub-installation	า		
	PRODCOM	Name of product or group	of Unit	2014	2015	2016	2017	2019
		Name of product or group	of Unit	2014	2015	2016	2017	2018
	2010	products						
)								
	Sum of product	ion levels						
ta	required for t	the determination of the b	onchmark improv	amont rato nu	euant to Artic	le 10a(2) of	the EU ETS D	irective
La	required for i	the determination of the t		ement rate pui	Suant to Artic			nective
) -(installation with	n product benchmark:						
	Upon entries r	nade below, the attributable	<u>e emissions are calc</u>	<u>ulated in sectio</u>	n K.III.2 of the s	summary sho	eet.	
		table emissions (DirEm* (M		a this such inst	llation			
)	Directly attribu	Itable emissions (DirEm* (M	P source streams))	this sub-insta	liation			
	Directly attribu	Itable emissions (DirEm*)	Unit	2014	2015	2016	2017	2018
			t CO2e/year					
	Eucl input to th	the state in station and as to						
		his sub-installation and rele	vant emission factor					
'	r del input to ti	his sub-installation and rele			2015	2016	2017	2019
		his sub-installation and rele	Unit	2014	2015	2016	2017	2018
i.	Fuel input		Unit TJ / year		2015	2016	2017	2018
i.			Unit		2015	2016	2017	2018
i. i.	Fuel input Weighted emiss	sion factor	Unit TJ/year t CO2/TJ	2014		2016	2017	2018
i. i.	Fuel input Weighted emiss	sion factor al source streams imported	Unit TJ / year t CO2 / TJ to or exported from	2014 this sub-install	ation	2016	2017	2018
i. i.	Fuel input Weighted emiss	sion factor	Unit TJ / year t CO2 / TJ to or exported from	2014 this sub-install	ation	2016	2017	2018
i. i.	Fuel input Weighted emiss Further interna Are further impo	sion factor Il source streams imported orted or exported internal sou	Unit TJ / year t CO2 / TJ to or exported from	2014 this sub-install	ation	2016	2017	2018
i. ii.)	Fuel input Weighted emiss Further interna Are further impo Name of furthe	sion factor Il source streams imported orted or exported internal sou er source streams - 1:	Unit TJ / year t CO2 / TJ to or exported from rce streams relevant f	2014 this sub-installa	ation lation?			
i. ii. i.	Fuel input Weighted emis: Further interna Are further impo Name of further Further source	sion factor al source streams imported orted or exported internal sou er source streams - 1: e streams - 1	Unit TJ / year t CO2 / TJ to or exported from rce streams relevant f Unit	2014 this sub-install	ation	2016	2017	2018
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i. ii. i. ii. v.	Fuel input Weighted emiss Further interna Are further impo Name of further Further source Amount importe	sion factor al source streams imported pred or exported internal sou er source streams - 1: e streams - 1 ed or exported ue (NCV), if applicable	Unit TJ / year t CO2 / TJ to or exported from rce streams relevant f Unit t / year	2014 this sub-installa	ation lation?			
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i.ii.) i. ii. v. v. /i.ii. x. x.	Fuel input Weighted emis: Further interna Are further import Further source Amount importe Net calorific val Carbon content Biomass conter Emissions (foss Memo-Item: Bio Energy content Error messages	Sion factor al source streams imported pred or exported internal sou pr source streams - 1: e streams - 1 e d or exported ue (NCV), if applicable ((mass %) at (as fraction of carbon) at), calculated) promass emissions (calculated) is (emissions)	Unit TJ / year t CO2 / TJ to or exported from rce streams relevant f Unit t / year GJ / t % % % t CO2 / year t CO2 / year t CO2 / year	2014 this sub-installa	ation lation?			
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(I) Waste gas balance for this sub-installation

i. Are waste gases relevant for this sub-installation?

NIMsBL_template_Final draft_20190125 transl. final.xls; F_ProductBM

	Unit	2014	2015	2016	2017	2018
Amounts produced	1000Nm3/year					
Net calorific value	GJ/1000Nm3					
Waste gas produced	TJ / year					
Specific EF (produced waste gas)	t CO2 / TJ					
Types of waste gases consumed:				-		
<u> </u>	Unit	2014	2015	2016	2017	2018
Amounts consumed	1000Nm3/year					
Net calorific value	GJ/1000Nm3					
Waste gas consumed	TJ / year					
Specific EF (consumed waste gas)	t CO2 / TJ					
Types of waste gases flared:						
	Unit	2014	2015	2016	2017	2018
Amounts flared	1000Nm3/year					
Net calorific value	GJ/1000Nm3					
Waste gas flared	TJ / year					
Specific EF (flared waste gas)	t CO2 / TJ					
Types of waste gases imported:						
	Unit	2014	2015	2016	2017	2018
Amounts imported	1000Nm3/year					
Net calorific value	GJ/1000Nm3					
Waste gas imported	TJ / year					
Specific EF (imported waste gas)	t CO2 / TJ					
Types of waste gases exported:						
	Unit	2014	2015	2016	2017	2018
Amounts exported	1000Nm3/year					
Net calorific value	GJ/1000Nm3					
Waste gas exported	TJ / year					
Specific EF (exported waste gas)	t CO2 / TJ					
Electricity production						
	Unit	2014	2015	2016	2017	2018
Electricity produced	MWh / year					
Total amount of pulp produced						
	tonnes					

10 Sub-installation with product benchmark:

Detailed instructions for data entries in this tool can be found at the first copy of this tool. (F.I.1)

(a) Historic activity levels

.,	Annual activity levels:	Unit	2014	2015	2016	2017	2018	
i.		tonnes						
ii.	From sheet "H_SpecialBM":	tonnes						
iii.	Values used for calculation:	tonnes						
(b)	Special reporting requirements:							

Further correction factors

(c)	Exchangeability of fuel and electricity:							
	Parameter	Unit	2014	2015	2016	2017	2018	
i.	Direct emissions	t CO2 / year						
ii.	Net imported heat	TJ / year						
iii.	Relevant electricity consumption	MWh / year						
iv.	Total direct emissions	t CO2 / year						
٧.	Indirect emissions	t CO2 / year						
(d)	Heat imported from non-ETS installation	is or entities:						
	Parameter	Unit	2014	2015	2016	2017	2018	

i didilictei	Quint.	2014	2010	2010	2011	2010	
i. Measurable heat imported from non-ETS:	TJ / year						
ii. Consistency check with sheet "E_Energy	%						
flows":							
iii. Consistency check with point (n):	%						

Production details

(e) Identification of products included in this product benchmark sub-installation

A list of PRODCOM 2010 codes can be found at:

http://ec.europa.eu/eurostat/ramon/nomenclatures/index.cfm?TargetUrl=LST_CLS_DLD&StrNom=PRD_2010&StrLanguageCode=EN&StrLayoutCode=HIERARCHIC

(f) Individual production levels of products included in this product benchmark sub-installation

	PRODCOM 2010	Name of product or group of products	Unit	2014	2015	2016	2017	2018
1								
2								

Sum of production levels							
a required for the determin		ichmark impi	rovement rate	pursuant to A	Article 10a(2) o	of the EU ETS	Directive
-installation with product ber	nchmark:						
Upon entries made below,	the attributable er	<u>missions are c</u>	alculated in se	ction K.III.2 of t	<u>he summary sl</u>	<u>heet.</u>	
Directly attributable emissi	ions (DirEm* (MP s	source stream	s)) to this sub-i	nstallation			
Directly attributable emissi	ions (DirEm*)	Unit	2014	2015	2016	2017	2018
Directly attributable emission		t CO2e/year	2014	2013	2016	2017	2010
First leaved to this such insta							
Fuel input to this sub-instal	allation and releval	nt emission fa Unit	ctor 2014	2015	2016	2017	2018
. Fuel input		TJ / year					
. Weighted emission factor		t CO2 / TJ					
Further internal source stre	eams imported to	or exported fr	om this sub-ins	tallation			
. Are further imported or expor							
. Name of further source stre	eams - 1:						
Further source streams - 1		Unit	2014	2015	2016	2017	2018
. Amount imported or exported		t/year					
. Net calorific value (NCV), if a Carbon content (mass %)	applicable	GJ / t %					
Biomass content (as fraction		%					
Emissions (fossil, calculated)		t CO2 / year					
. <u>Memo-Item: Biomass emissio</u> . Energy content (calculated)	0118	t CO2 / year TJ / year					
Error messages (emissions)		. ,					
. Name of further source stre	oams - 2.						
		11	2014	2015	2016	2017	2040
Further source streams - 2 Amount imported or exported		Unit t / year	2014	2015	2016	2017	2018
. Net calorific value (NCV), if a		GJ / t					
. Carbon content (mass %)	of corbon)	%					
Biomass content (as fraction		% t CO2 / year					
Emissions (tossil, calculated)							
Emissions (fossil, calculated) Memo-Item: Biomass emission	ions	t CO2 / year					
. Memo-Item: Biomass emission Energy content (calculated)	ions	<i>t CO2 / year</i> TJ / year					
. Memo-Item: Biomass emissio	ions						
. Memo-Item: Biomass emission Energy content (calculated)		TJ / year dstock					
. Memo-Item: Biomass emissic Energy content (calculated) Error messages (emissions) Amount of GHG imported o		TJ / year dstock Unit	2014	2015	2016	2017	2018
. Memo-Item: Biomass emissic . Energy content (calculated) . Error messages (emissions)		TJ / year dstock	2014	2015	2016	2017	2018
Memo-Item: Biomass emissic Energy content (calculated) Error messages (emissions) Amount of GHG imported o GHG imported or exported Measurable heat import to a	or exported as feet	TJ / year dstock Unit t CO2e/year his sub-install	ation		2016	2017	2018
Memo-Item: Biomass emissic Energy content (calculated) Error messages (emissions) Amount of GHG imported o GHG imported or exported Measurable heat import to a For attributing emissions from cogen	or exported as feet	TJ / year dstock Unit t CO2e/year his sub-install	ation HP tool" in section D).III. has to be used.			
Memo-Item: Biomass emissic Energy content (calculated) Error messages (emissions) Amount of GHG imported o GHG imported or exported Measurable heat import to a For attributing emissions from cogen Total heat imported Net heat imported	or exported as feet	TJ / year dstock Unit t CO2e/year his sub-install tion of heat, the "C Unit TJ / year	ation		2016	2017	2018
Memo-Item: Biomass emissic Energy content (calculated) Error messages (emissions) Amount of GHG imported of GHG imported or exported Measurable heat import to a For attributing emissions from cogen Total heat imported Net heat imported Specific EF (imported heat)	or exported as feet	TJ / year dstock Unit t CO2e/year his sub-install tion of heat, the "C Unit TJ / year t CO2 / TJ	ation HP tool" in section E 2014).III. has to be used. 2015	2016	2017	
Memo-Item: Biomass emissic Energy content (calculated) Error messages (emissions) Amount of GHG imported o GHG imported or exported Measurable heat import to a For attributing emissions from cogen Total heat imported Net heat imported Specific EF (imported heat) Special heat import	or exported as feet	TJ / year dstock Unit t CO2e/year his sub-install tion of heat, the "C Unit TJ / year t CO2 / TJ Unit	ation HP tool" in section D).III. has to be used.			2018
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Memo-Item: Biomass emissic Energy content (calculated) Error messages (emissions) Amount of GHG imported o GHG imported or exported Measurable heat import to a For attributing emissions from cogen Total heat imported Net heat imported Specific EF (imported heat) Special heat import Net heat imported from pulp Net heat imported from pulp Net heat exported Net heat exported	and exported as feed and export from th neration (CHP) to produc	TJ / year dstock Unit t CO2e/year his sub-install tor of heat, the 'C Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year Unit TJ / year	ation HP tool" in section E 2014 2014	2015 2015 2015	2016	<u>2017</u> 2017 2017	2018 2018
Memo-Item: Biomass emissic Energy content (calculated) Error messages (emissions) Amount of GHG imported o GHG imported or exported Measurable heat import to a For attributing emissions from cogen Total heat imported Specific EF (imported heat) Specific EF (imported heat) Net heat imported from pulp Net heat imported Specific EF (exported heat) Net heat exported Net heat exported	and exported as feed and export from th neration (CHP) to produc acid sub- sub-installation	TJ / year dstock Unit t CO2e/year his sub-install tion of heat, the "C Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year Unit TJ / year t CO2 / TJ	ation HP tool" in section E 2014 2014	2015 2015 2015	2016	<u>2017</u> 2017 2017	2018 2018
Memo-Item: Biomass emissic Energy content (calculated) Error messages (emissions) Amount of GHG imported of GHG imported or exported Measurable heat import to a For attributing emissions from cogen Total heat imported Specific EF (imported heat) Specific EF (imported heat) Specific EF (imported from pulp Net heat imported Net heat imported Specific EF (exported heat) Net heat exported Specific EF (exported heat) Specific EF (exported heat) Waste gas balance for this	or exported as feed and export from th neration (CHP) to produc acid sub- sub-installation or this sub-installation	TJ / year dstock Unit t CO2e/year his sub-install tion of heat, the "C Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year Unit TJ / year t CO2 / TJ	ation HP tool" in section E 2014 2014	2015 2015 2015	2016	<u>2017</u> 2017 2017	2018 2018
Memo-Item: Biomass emissic Energy content (calculated) Error messages (emissions) Amount of GHG imported of GHG imported or exported Measurable heat import to a For attributing emissions from cogen Total heat imported Specific EF (imported heat) Specific EF (imported heat) Net heat imported Net heat imported Net heat imported Specific EF (exported heat) Specific EF (exported heat) Specific EF (exported heat) Waste gas balance for this Are waste gases relevant for	or exported as feed and export from th neration (CHP) to produc acid sub- sub-installation or this sub-installation	TJ / year dstock Unit t CO2e/year his sub-install tion of heat, the "C Unit TJ / year t CO2 / TJ Unit TJ / year TJ / year t CO2 / TJ vear t CO2 / TJ ation?	ation HP tool" in section D 2014 2014 2014 2014	III. has to be used. 2015 2015 2015 2015	2016 2016 2016 2016	<u>2017</u> 2017 2017	2018 2018 2018
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_	Navigation area: Top of sheet End of sheet	Heat bench	ble of contents mark sub-installation, CL mark sub-installation, non-0		b-installation, non-C	Next District heating sub- Process emissions	installation	Summar Fuel benchmark sub-inst		
Sh	eet "Fall-back" -	SUB-INSTA	LLATION DAT		G TO FALL	-BACK SU	B-INSTALL			
	The navigation bar ab	ove only contai	ns links to sub-inst	allations that are	selected as "r	elevant" in sec	tion A.III.2.			
His	toric Activity levels	and disaggre	gated productio	n details						
Fall	-Back sub-installatior			Heat benchm		· ·				
	The name of the fall-back sub This sheet serves the follow	ing two purposes:								
			amount of free allocation provement rates of fall-ba			ns				
(a) Historic activity levels The following data is taken automatically from sheet "E EnergyFlows", section E. II.r. Thus, data input is mandatory there. For a following data is taken automatically from sheet "E EnergyFlows", section E. II.r. Thus, data input is mandatory there.										
Based on the start of normal operation entered in A.III., it will be automatically determined if this sub-installation has been operating for less than one year in the baseline period. If this is the historic activity level will be determined based on the first calendar year after the start of normal operation, pursuant to the third sub-paragraph of Article 15(7) of the FAR.										
	Corresponding entries are req submission, entries here can			be 2019 or 2020. How	ever, since the annu	al production for the	at year will not be kn	own at the time of the NIN		
	Main activity level: Heat benchmark sub-in:	stallation, CL	Unit TJ	2014	2015	2016	2017	2018		
Pro	duction details									
(b)	Identification of releva Please list here to which prod					ms.				
	- Production	n of goods not covere	d by product benchmarks y, heating or cooling (all u	within the installation (please provide type					
	 export of I 	heat to installations or	other entities (other than	district heating). In this	case please indica					
	PRODCOM codes shall be en provided in the form of "nnnn"	1	mmmm , i.e. without any de	ns or other delimiters i	nuetween. Only if P	RUDUUM are not a	vallable, at least a 4	-uigit ievel NACE code sł		
	A list of PRODCOM 2010 cod http://ec.europa.eu/eurostat/ra	amon/nomenclatures/i				uageCode=EN&Strl	.ayoutCode=HIERA	<u>RCHIC</u>		
	NACE codes can be used insi If the heat is exported, the cor					d.				
	Use type		stallation or	Product name,	or heat export	other than "di	strict heating"	PRODCOM		
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	The weighted emission factor should furthermore inclu	ide emissions from correspond	dina flue aas cleenina	if applicable			
	Fuel input from waste gases includes the correspondir.				llation		
	The values entered here are used for the waste gas ba		measurable near ase	a by this sub mata			
	Data provided here are only used for consistency of		impact on either the	attributable emis	sions or the allocati	on.	
		Unit	2014	2015	2016	2017	2018
i. ⁻	Total fuel input	TJ / year					
	Weighted emission factor	t CO2 / TJ					
ii.	Fuel input from waste gases	TJ / year					
	Specific EF (waste gas)	t CO2 / TJ					
-	Measurable heat produced Please enter here the measurable heat produced purs This value is usually different from the sub-installation' or exported to non-ETS entitles, and disregards heat it	's activity level listed under poi	int (a) above, as it tak	es into account the	heat losses in additio	on to the net amoun	ts of measurable heat c
	Measurable heat produced	Unit	2014	2015	2016	2017	2018
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i. ii. v. v. iii. iii.	onsite and consumed within this is installations or from waste gasess - Heat from product BM: this includes production on thitic acid. - Heat from pulp: this includes heat - Heat from fuel BM The specific emission factors (EF) associated with the For attributing emissions from cogeneration (CHP) to Net heat imported (other sources) Net heat imported Specific EF (imported heat) Heat from pulp Net heat imported Specific EF (from product BM) Heat from pulp Net heat imported Specific EF (from pulp) Heat from fuel BM Net heat imported	ub-installation. Measurable he should not be included here, be imported from sub-installation: neasurable heat exported f is measurable heat recovered fror des measurable heat which is j "sources, i.e. installations ne heat should take into account oroduction of heat. the "CHP to Unit TJ / year t CO2 / TJ Unit TJ / year	at imported from any eccause separate entry from product BM sub- s producing pulp. In waste heat from fue oroduced from waste : ot covered by the EU the provisions in FAA col" in section D III, he 2014 2014 2014 2014	roduct BM sub-ins rfields are provided installations with the I BM sub-installation gases. ETS, or heat produ R Annex VII section Is to be used. 2015 2015 2015 2015	tatlation, pulp produc d for these figures. e exception of measu ons. ceed in nitric acid sub- s 8 and 10, in particu 2016 2016 2016	tion, measurable he rable heat from sub installations. ar sections 10.1.2 a 2017 2017 2017	and recovered from fuel I -installations producing and 10.1.3 thereof. 2018 2018 2018 2018 2018

2 Fall-Back sub-installation:

Heat benchmark sub-installation, non-CL

Detailed instructions for data entries in this tool can be found at the first copy of this tool. (G.I.1)

(a) Historic activity levels

The following data is taken automatically from sheet "E_EnergyFlows", section E.II.r. Thus, data input is mandatory there.							
Main activity level:	Unit	2014	2015	2016	2017	2018	
Heat benchmark sub-installation, non-CL	TJ						

Production details

(b) Identification of relevant products or services associated with this sub-installation

	Use type Within installation or export?		Product name,	strict heating"	PRODCOM 2010			
1								
1 2 3 4								
3								
4								
5								
6								
8								
9								
10								
	Production levels:							
	Product name, or heat expor	t other than	Unit	2014	2015	2016	2017	2018
	"district heating"							
1								
1								
3								
4								
5								
6								
7								
8 9								
10								
	Sum of production levels							

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

(c) Directly attributable emissions (DirEm*) to this sub-installation

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Total direct emissions	Unit	2014	2015	2016	2017	2018
Heat benchmark sub-installation, non-CL	t CO2e/year					
Fuel input to this sub-installation and rele Detailed instructions for data entries here can be found		tor	_			
	Unit	2014	2015	2016	2017	2018
Total fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Fuel input from waste gases	TJ / year					
Specific EF (waste gas)	t CO2 / TJ					
Measurable heat produced Detailed instructions for data entries here can be found						
Measurable heat produced	Unit	2014	2015	2016	2017	2018
Heat benchmark sub-installation, non-CL	TJ / year					
Measurable heat imported Detailed instructions for data entries here can be found						
Net heat imported (other sources)	Unit	2014	2015	2016	2017	2018
Net heat imported	TJ/year					
Specific EF (imported heat)	t CO2 / TJ					
Heat from product BM	Unit	2014	2015	2016	2017	2018
Net heat imported	TJ / year					
Specific EF (from product BM)	t CO2 / TJ					
Heat from pulp	Unit	2014	2015	2016	2017	2018
Net heat imported	TJ / year					
Specific EF (from pulp)	t CO2 / TJ					
Heat from fuel BM	Unit	2014	2015	2016	2017	2018
Net heat imported	TJ / year					
Specific EF (from fuelBM)	t CO2 / TJ					
Heat from waste gases	Unit	2014	2015	2016	2017	2018
Net heat imported	TJ / year					
Specific EF (from waste gas)	t CO2 / TJ					
Total net heat imported	TJ / year					

```
3 Fall-Back sub-installation:
```

District heating sub-installation

Detailed instructions for data entries in this tool can be found at the first copy of this tool. (G.I.1)

(a) Historic activity levels

The following data is taken automatically from sheet "E_EnergyFlows", section E.II.r. Thus, data input is mandatory there.							
Main activity level:	Unit	2014	2015	2016	2017	2018	
District heating sub-installation	TJ						

Production details

(b) Identification of relevant products or services associated with this sub-installation

	Use type	District heating network	PRODCOM
			2010
1	District heating		
2	District heating		
3	District heating		
4	District heating		
5	District heating		
6	District heating		
7	District heating		
8	District heating		
9	District heating		
10	District heating		

Production levels:

	District heating network	Unit	2014	2015	2016	2017	2018
1		TJ					
2		TJ					
3		TJ					
4		TJ					
5		TJ					
6		TJ					
7		TJ					
8		TJ					
9		TJ					
10		TJ					
	Sum of production levels						

Data required for the determination of the benchmark improvement rate pursuant to Article 10a(2) of the EU ETS Directive									
(c) Directly attributable emissions (DirEm*) to this sub-installation Detailed instructions for data entries here can be found under point 1.c above.									
Total direct emissions	Unit	2014	2015	2016	2017	2018			
District heating sub-installation	t CO2e/year								
(d) Fuel input to this sub-installation and relevant emission factor Detailed instructions for data entries here can be found under point 1.d above.									
i. Fuel input	Unit TJ / year	2014	2015	2016	2017	2018			
ii. Weighted emission factor	t CO2 / TJ								
iii. Waste gases consumed	TJ / year								
iv. Specific EF (consumed waste gas)	t CO2 / TJ								
e) Measurable heat produced Detailed instructions for data entries here can be fou	nd under point 1.e above.								
	Unit	2014	2015	2016	2017	2018			
Measurable heat produced	Unit	2014	2010	2010	2011	2010			

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(f)	Measurable heat imported Detailed instructions for data entries here can be found	l under point 1.f above.					
	Net heat imported (other sources)	Unit	2014	2015	2016	2017	2018
i.	Net heat imported	TJ / year					
ii.	Specific EF (imported heat)	t CO2 / TJ					
	Heat from product BM	Unit	2014	2015	2016	2017	2018
iv.	Net heat imported	TJ / year					
٧.	Specific EF (from product BM)	t CO2 / TJ					
	Heat from pulp	Unit	2014	2015	2016	2017	2018
vii.	Net heat imported	TJ / year					
viii.	Specific EF (from pulp)	t CO2 / TJ					
	Heat from fuel BM	Unit	2014	2015	2016	2017	2018
х.	Net heat imported	TJ / year					
xi.	Specific EF (from fueIBM)	t CO2 / TJ					
	Heat from waste gases	Unit	2014	2015	2016	2017	2018
xiii.	Net heat imported	TJ / year					
xiv.	Specific EF (from waste gas)	t CO2 / TJ					
xvi.	Total net heat imported	TJ / year					

4	Fall-Ba	ak cu	hinct	allation
4	ган-ра	sk su	D-INSt	anation

Fuel benchmark sub-installation, CL

	Detailed instructions for data entries in this tool can be found at the first copy of this tool. (G.I.1)									
(a)	a) Historic activity levels									
	The following data is taken automatically from sheet "E_En	ergyFlows", section I	E.I.c. Thus, data inpu	it is mandatory there	<u>e.</u>					
	Main activity level:	Unit	2014	2015	2016	2017	2018			
	Fuel benchmark sub-installation, CL TJ									

Production details

(b) Identification of relevant products or services associated with this sub-installation Please list here to which production processes or services this sub-installation relates. This may include the following items:

- Production of goods not covered by product benchmarks within the installation (please provide types of product); - production of mechanical energy, heating or cooling (all uses excluding production of electricity).

	Use type	Product name or service type	PRODCOM 2010
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Production levels:

	Product name or service type	Unit	2014	2015	2016	2017	2018
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
	Sum of production levels						

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

(c) Directly attributable emissions (DirEm*) to this sub-installation Data provided here will impact the attributable emissions in accordance with section 10.1.1 of Annex VII of the FAR. Please enter here the direct emissions monitored in line with the MP approved under the MRR, i.e. taking into account the emissions from calculation based methodologies (using source streams), measurement based methodologies (CEMS) as well as no-tier approaches ("fall-backs"). Emis elow.

issions from the combustion o	f waste gases shou	Id however not be include	d here but under point (d).	iii be
-------------------------------	--------------------	---------------------------	-----------------------------	--------

	Total direct emissions	Unit	2014	2015	2016	2017	2018
	Fuel benchmark sub-installation, CL	t CO2e/year					
(d)	Fuel input to this sub-installation and releva						

Values for i. and ii. are automatically generated based on entries under (a) and (c) above.

	Unit	2014	2015	2016	2017	2018
i. Fuel input entered under (a)	TJ / year					
ii. Weighted emission factor (=c./d.)	t CO2 / TJ					
iii. Fuel input from waste gases	TJ / year					
iv. Specific EF (waste gas)	t CO2 / TJ					
Net heat exported	TJ / year					
Specific EF (heat export)	t CO2 / TJ					

This concerns any waste heat recovered and eligible for a heat BM or district heating sub-installation.

```
5 Fall-Back sub-installation:
```

Fuel benchmark sub-installation, non-CL

Detailed instructions for data entries in this tool can be found at the first copy of this tool. (G.I.1)

(a) Historic activity levels

The following data is taken automatically from sheet "E E	EnergyFlows", section E	E.I.c. Thus, data inpu	it is mandatory there	<u>e.</u>			
Main activity level:	Unit	2014	2015	2016	2017	2018	
Fuel benchmark sub-installation, non-CL	TJ						

Production details

(b) Identification of relevant products or services associated with this sub-installation Please list here to which production processes or services this sub-installation relates. This may include the following items: Production of goods not covered by product benchmarks within the installation (please provide types of product);

- production of mechanical energy, heating or cooling (all uses excluding production of electricity).

	Use type	Product name or service type	PRODCOM 2010
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Production levels:

	Product name or service type	Unit	2014	2015	2016	2017	2018
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
	Sum of production levels						

Data required for the determination of the benchmark improvement rate pursuant to Article 10a(2) of the EU ETS Directive (c) Directly attributable emissions (DirEm*) to this sub-installation

Detailed instituctions for data entries here can be found under point 4.c above.							
	Total direct emissions	Unit	2014	2015	2016	2017	2018
	Fuel benchmark sub-installation, non-CL	t CO2e/year					
(H)	Fuel input to this sub-installation and releva	ant emission fa	ctor				

(d) Fuel input to this sub-installation and relevant emission facto

	Detailed instructions for data entries here can be to	und under point 4.d above.					
		Unit	2014	2015	2016	2017	2018
i.	Fuel input entered under (a)	TJ / year					
ii.	Weighted emission factor (=c./d.)	t CO2 / TJ					
iii.	Fuel input from waste gases	TJ / year					
iv.	Specific EF (waste gas)	t CO2 / TJ					
(e)	Net heat exported	TJ / year					
	Specific EF (heat export)	t CO2 / TJ					

6 Fall-Back sub-installation:

Process emissions sub-installation	, CL	

Detailed instructions for data entries in this tool can be found at the first copy of this tool. (G.I.1)

(a)	Historic	activity	levels

Values entered here should include eligible emissions from any waste gases as determined in section D.IV.									
Main activity level:	Unit	2014	2015	2016	2017	2018			
Process emissions sub-installation, CL	t CO2e								

Production details

(b) Identification of relevant products or services associated with this sub-installation marks within the installation. This type of sub-installation always relates to production of goods not covered by product bench

	Process emission type	Product name or service type	PRODCOM 2010
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

(c) Production levels:

	Product name or service type	Unit	2014	2015	2016	2017	2018
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
	Sum of production levels						

7 Fall-Back sub-installation:

Process emissions sub-installation, non-CL

Detailed instructions for data entries in this tool can be found at the first copy of this tool. (G.I.1)

(a)	Historic ac	tivity lev	els			

Values entered here should include eligible emissions from any waste gases as determined in section D.IV.									
Main activity level:	Unit	2014	2015	2016	2017	2018			
Process emissions sub-installation, non-CL	t CO2e								

Production details

(b) Identification of relevant products or services associated with this sub-installation

	Process emission type Product name or service type									
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
10 (c)	Disaggregation of production levels:									
	Disaggregation of production levels: Product name or service type	Unit	2014	2015	2016	2017	2018			
(c)		Unit	2014	2015	2016	2017	2018			
(c)		Unit	2014	2015	2016	2017	2018			
(c) 1 2 3		Unit	2014	2015	2016	2017	2018			
(c) 1 2 3 4		Unit	2014	2015	2016	2017	2018			
(c) 1 2 3 4 5		Unit Unit	2014	2015	2016	2017	2018			
(c) 1 2 3 4 5 6		Unit Unit	2014	2015	2016	2017	2018			
(c) 1 2 3 4 5 6 7		Unit	2014	2015	2016	2017	2018			
(c) 1 2 3 4 5 6 7 8		Unit	2014	2015	2016	2017	2018			
(c) 1 2 3 4 5 6 7 8 9		Unit	2014	2015	2016	2017	2018			
(c) 1 2 3 4 5 6 7 8		Unit 	2014	2015	2016	2017	2018			

<<< Click here to proceed to next sheet >>>

	Navigation area:	Table of contents	Previous sheet	Next sheet	Summary
Special BM	Top of sheet	CWT (Refinery products)	<u>Lime</u>	<u>Dolime</u>	Steam cracking
эресіаі ым	End of sheet	CWT (Aromatics)	<u>Hydrogen</u>	Synthesis gas	Ethylene oxide / glycols
		Vinyl chloride monomer			

H. Sheet "SpecialBM" - SPECIAL DATA FOR SOME PRODUCT BENCHMARKS

I CWT (Refinery products) Tool for calculating the historical activity levels for refinery sub-installations This tool helps you determine the HAL (historical activity levels) for the refinery benchmark (Annex III point 1 of the FAR). For the aromatics benchmark, which also uses CWT, please use the specific CWT tool for aromatics below (section V of this sheet). The result of this tool is automatically copied into sheet "F_ProductBM", input line "(a).ii" of the appropriate sub-installation. (a) Relevance of this tool in your installation: ated based on your inputs in sheet "A_InstallationData", section A.III.1. This message is automatically gen (b) CWT througput data re the annual throughput data for each CWT function. For the definition and boundaries of each CWT function please see Annex II point 1 of the FAR. For the basis the following abbreviations are used. Net fresh feed F R Reactor feed (includes recycle) D Product feed SG Synthesis gas production for POX units Important note: In accordance with Annex II of the FAR, the units for reporting are kilotonnes throughput **CWT** function Basis (kt/a) CWT factor 2014 2015 2016 2017 2018 Atmospheric Crude Distillation 1,00 F Vacuum Distillation 0,85 Solvent Deasphalting 2.45 F Visbreaking 1.40 Thermal Cracking 2,70 2,20 7,60 **Delayed Coking** Fluid Coking Flexicoking Coke Calcining 16,60 12,75 Fluid Catalytic Cracking 5,50 Other Catalytic Cracking 4,10 Distillate / Gasoil F 2.85 Hydrocracking Residual Hydrocracking F 3,75 Naphtha/Gasoline F 1.10 Hydrotreating Kerosene/ Diesel F 0.90 Hydrotreating Residual Hydrotreating 1,55 VGO Hydrotreating 0,90 Hydrogen Production 300,00 Catalytic Reforming 4,95 Alkylation C4 Isomerisation C5/C6 Isomerisation Р 7,25 R 3,25 2,85 R Oxygenate Production P 5.60 Propylene Production 3,45 Asphalt Manufacture Polymer-Modified Asphalt 2,10 P Р 0.55 Blending Sulphur Recovery P 18,60 Aromatic Solvent Extraction 5,25 2,45 Hydrodealkylation TDP/ TDA 1,85 Cvclohexane production 3,00 Xylene Isomerisation 1,85 Paraxylene production D 6,40 Metaxylene production P 11.10 Phtalic anhydride production 14,40 F Maleic anhydride production Р 20,80 Р Ethylbenzene production 1.55 Cumene production Р 5,00 Phenol production Р 1,15 Lube solvent extraction 2.10 Lube solvent dewaxing 4,55 Catalytic Wax Isomerisation 1,60 Lube Hydrocracker Wax Deoiling 2,50 12,00 P Lube/Wax Hydrotreating 1,15 F Solvent Hydrotreating 1,25 Solvent Fractionation 0,90 Mol sieve for C10+ paraffins Р 1,85 SG Partial Oxidation of Residual 8,20 Feeds (POX) for Fuel Partial Oxidation of Residual SG 44.00 Feeds (POX) for Hydrogen or Methanol Methanol from syngas Р -36,20 P (MNm3 O2) Air Separation 8,80 Fractionation of purchased 1,00 NGL Flue gas treatment F (MNm3) 0,10 Treatment and Compression 0,15 kW of Fuel Gas for Sales Seawater Desalination 1,15

(c) Result: Activity levels for the refinery benchmark expressed as CWT

Here the refinery activity level is calculated using the formula given in the FAR, Annex III point 1 (before determining the average value).

Important note: The reporting above is done in kilotonnes, but the benchmark is expressed in t CO2/CWT, where CWT is expressed in tonnes. Therefore the results below are multiplied with a factor of 1000, which is not explicitely mentioned in Annex III point 1 of the FAR.

. <mark>ime</mark> ool	Refinery activity level			2015	2016	2017	2018
ool		CWT / year					
ool							
ool							
	for calculating the historical activity						
	This tool helps you determine the HAL (historical actin The result of this tool is automatically copied into she						
			ie (a).ii oi tile appro	onate sub-instanation.			
• •	Relevance of this tool in your installation This message is automatically generated based on you		allationData" section	Δ III 1			
Ī	The meeding is alternationally generated baced on ye		anabonbata , coonon				
(b)	Uncorrected Lime production:						
	Please enter here the annual production data express	sed as tonnes of lime, with	out correction for the	composition data:			
-	uppersonate of lines production	Unit	2014	2015	2016	2017	2018
-	uncorrected lime production	t/year					
	Composition data: Pursuant to Annex III point 2 of the FAR, the following	a data is required:					
	m(CaO) content of free CaO in the produc		e baseline period expl	essed as mass-%			
	In case no data on the content of				all be applied.		
	m(MgO) content of free MgO in the product In case no data on the content of				all be applied.		
		Unit	2014	2015	2016	2017	2018
-	Content of CaO	%					
-	Content of MgO	%					
	Result: Activity levels for lime expresse			2 (hoforo data maia)	the evenes with a		
	Here the corrected lime activity level is calculated usi The result of this tool is used in sheet "F ProductBM"						
		Unit	2014	2015	2016	2017	2018
-	production of standard pure lime	t / year					
Ī							
Dolii	me						
ool	for calculating the historical activity	levels for Dolime	sub-installation	ons			
	This tool helps you determine the HAL (historical activ	vity levels) for the Dolime b	benchmark (Annex III	point 3 of the FAR). It i	is not to be used for "s	intered dolime".	
	The result of this tool is automatically copied into she	et "F_ProductBM", input lir	ne "(a).ii" of the appro	oriate sub-installation.			
(a)	Relevance of this tool in your installation	on:					
• •	This message is automatically generated based on year		allationData", section	A.III.1.			
[
	Uncorrected Dolime production:						
	Please enter here the annual production data express						
	we are not all the first state that the	Unit	2014	2015	2016	2017	2018
-		t / vear			_0.0		2010
-	uncorrected dolime production	t / year					
(c)	Composition data: Pursuant to Annex III point 3 of the FAR, the following						
(c)	Composition data:	data is required:	the baseline period e.				
(c)	Composition data: Pursuant to Annex III point 3 of the FAR, the following m(CaO) content of free CaO in the produc In case no data on the content of	g data is required: ad dolime in each year of i free CaO is available, a co	onservative estimate i	xpressed as mass-% not lower than 52% sha			
(c)	Composition data: Pursuant to Annex III point 3 of the FAR, the following m(CaO) content of free CaO in the produc In case no data on the content of m(MgO) content of free MgO in the produc	g data is required: red dolime in each year of free CaO is available, a co red dolime in each year of	onservative estimate i the baseline period e	pressed as mass-% tot lower than 52% sha pressed as mass-%	all be applied.		
(c)	Composition data: Pursuant to Annex III point 3 of the FAR, the following m(CaO) content of free CaO in the produc In case no data on the content of	y data is required: red dolime in each year of i free CaO is available, a co red dolime in each year of free MgO is available, a co	onservative estimate i the baseline period e onservative estimate	pressed as mass-% not lower than 52% sha pressed as mass-% not lower than 33% sha	II be applied. all be applied.	2017	
(c)	Composition data: Pursuant to Annex III point 3 of the FAR, the following m(CaO) content of free CaO in the produc In case no data on the content of m(MgO) content of free MgO in the produc	g data is required: red dolime in each year of free CaO is available, a co red dolime in each year of	onservative estimate i the baseline period e	pressed as mass-% tot lower than 52% sha pressed as mass-%	all be applied.	2017	2018
(c)	Composition data: Pursuant to Annex III point 3 of the FAR, the following m(CaO) content of free CaO in the produc In case no data on the content of m(MgO) content of free MgO in the produc In case no data on the content of	y data is required: red dolime in each year of free CaO is available, a co red dolime in each year of free MgO is available, a co Unit	onservative estimate i the baseline period e onservative estimate	pressed as mass-% not lower than 52% sha pressed as mass-% not lower than 33% sha	II be applied. all be applied.	2017	
(c)	Composition data: Pursuant to Annex III point 3 of the FAR, the following m(CaO) content of free CaO in the produc In case no data on the content of m(MgO) content of free MgO in the produc In case no data on the content of Content of CaO	y data is required: red dolime in each year of i free CaO is available, a cc red dolime in each year of free MgO is available, a cc Unit % %	onservative estimate i the baseline period e onservative estimate 2014	pressed as mass-% not lower than 52% sha pressed as mass-% not lower than 33% sha	II be applied. all be applied.	2017	
(c) (d)	Composition data: Pursuant to Annex III point 3 of the FAR, the following m(GaO) content of free CaO in the production in case no data on the content of m(MgO) In case no data on the content of m(MgO) content of Fee MgO in the production in the content of content of free MgO in the production of Content of CaO Content of CaO content of MgO Result: Activity levels for dolime express	a data is required: red dolime in each year of free CaO is available, a co ed dolime in each year of free MgO is available, a co Unit % % seed as standard pu using the formula given in to	onservative estimate i i the baseline period e onservative estimate 2014 2014 ure dolime the FAR, Annex III po	pressed as mass-% not lower than 52% sha pressed as mass-% not lower than 33% shu 2015 100 for than 2005 100 for the state of the state	all be applied. all be applied. 2016 ng the average value).	2017	
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	Unit	2014	2015	2016	2017	2018	
Net HVC production levels	t / year						

2 Steam cracking tool part 2: Preliminary allocation (Article 19 of the FAR)

This tool helps you determine the preliminary allocation for the steam cracking sub-installation (Article 19 of the FAR). It determines the amount which has to be added to the preliminary annual allocation after having corrected for electricity exchangeability.

The required data on historical production of hydrogen, ethylene and other HVC from supplemental feed expressed as tonnes, taken from IV.1.c above;

(a) Production from supplemental feed:

The data is automatically taken from section IV.1.c above. The multipliers are taken from Article 19 of the FAR.	
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Production from	Multiplier	Unit	2014	2015	2016	2017	2018	
supplemental feed	(t CO2 / t)							
Hydrogen	1,78	t / year						
Ethylene	0,24	t/year						
Other HVC	0,16	t / year						

(b) Result: Amount to be added to the preliminary total allocation for the steam cracking sub-installation:

formula given in the FAR, Article Unit

Amount for allocation correction: allowances N.A

V CWT (Aromatics)

Tool for calculating the historical activity levels for aromatics sub-installations

This tool helps you determine the HAL (historical activity levels) for the aromatics benchmark (Annex III point 5 of the FAR) For the refinery benchmark, which also uses CWT, please use the specific CWT tool for refineries above (section I of this sheet).

The result of this tool is automatically copied into sheet "F_ProductBM", input line "(a).ii" of the appropriate sub-installation.

(a) Relevance of this tool in your installation:

This message is automatically generated based on your inputs in sheet "A_InstallationData", section A.III.1.

(b) CWT througput data

the annual throughput data for each CWT function.

For the definition and boundaries of each CWT function please see Annex II point 2 of the FAR.

For the basis the following abbreviations are used: Net fresh feed Product feed F

D

Important note: In accordance with Annex II of the FAR, the units for reporting are kilotonnes throughput.

CWT function	Basis (kt/a)	CWT factor	2014	2015	2016	2017	2018	
Naphtha/Gasoline	F	1,10						
Hydrotreater								
Aromatic Solvent Extraction	F	5,25						
TDP/ TDA	F	1,85						
Hydrodealkylation	F	2,45						
Xylene Isomerisation	F	1,85						
Paraxylene production	Р	6,40						
Cyclohexane production	Р	3,00						
Cumene production	Р	5.00						

(c) Result: Activity levels for the aromatics benchmark expressed as CWT

Here the aromatics activity level is calculated using the formula given in the FAR, Annex III point 5 (before determining the average value). Important note: The reporting is done in ktonnes, but the benchmark is expressed in t CO2/CWT, where CWT is expressed in tonnes.

Therefore the results below are multiplied with a factor of 1000, which is not explicitely mentioned in Annex III point 5 of the FAR.

The result of this tool is used in sheet "E. ProductBM" input line (a) ii of the appropriate sub-installation from which the av is colculated

	Unit	2014	2015	2016	2017	2018	
Aromatics activity level	CWT / year						

VI Hydrogen

Tool for calculating the historical activity levels for hydrogen sub-installations

This tool helps you determine the HAL (historical activity levels) for the hydrogen benchmark (Annex III point 6 of the FAR). The result of this tool is automatically copied into sheet "F. ProductBM", input line "(a).ii" of the appropriate sub-installation

Please note that percentages for Hydrogen content are to be expresed as Vol-%.

(a) Relevance of this tool in your installation:

This message is automatically generated based on your inputs in sheet "A_InstallationData", section A.III.1.
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(b) Volume of total production of hydrogen (uncorrected)

enter here the annual production data of hydrogen referred to historical hydrogen content in each year of the baseline period. Due to the very big figures for m3, the figures are to be entered as 1000 Nm3 (norm cubic meters referring to 0°C and 101.325 kPa).

		Unit	2014	2015	2016	2017	2018	
	Total hydrogen production	1000Nm3/year						
(c)	Hydrogen volume fraction VF(H2) Please enter here the historical production volume fraction	on of pure hydrogen in ea	ach vear of the basi	eline period. This is	a dimensionless figu	Ire.		

You can enter the figure of 95% either as "0.95" or as "95%".

		Unit	2014	2015	2016	2017	2018	
	Volume fraction of hydrogen	-						
(d)	Result: Activity levels for hydrogen referred to a Here the corrected activity level (100% hydrogen) is calculated u			Annex III point 6 (be	fore determining the	average value).		

If the formula results in a negative value, it is replaced by zero.

The result of this tool is used in sheet "F_ProductBM", input line (a).ii of the appropriate sub-installation, from which the average is calculated.							
	Unit	2014	2015	2016	2017	2018	
Hydrogen (as 100% pure H2)	t / year						

VII Synthesis gas

Tool for calculating the historical activity levels for synthesis gas sub-installations

This tool helps you determine the HAL (historical activity levels) for the synthesis gas benchmark (Annex III point 7 of the FAR).

The result of this tool is automatically copied into sheet "F_ProductBM", input line "(a).ii" of the appropriate sub-installation Please note that percentages for hydrogen content are to be expresed as Vol-%.

(a) Relevance of this tool in your installation:

This message is automatically generated based on your inputs in sheet "A_InstallationData", section A.III.1.

					0015				
	Total synthesis gas production		Unit 1000Nm3/year	2014	2015	2016	2017	2018	
(c)	Hydrogen volume fraction VF	(H2)							
(0)	Please enter here the historical product		of pure hydrogen in	each year of the basel	ine period. This is a	dimensionless figu	ire.		
	You can enter the figure of 50% either a	as "0.50" or as "50%							
	Volume fraction of hydrogen		Unit	2014	2015	2016	2017	2018	
(a)	Result: Activity levels for syn Here the corrected activity level (referring						the average value).		
	If the formula results in a negative value								
	The result of this tool is used in sheet "	F_ProductBM", input						2018	
	Synthesis gas (47% H2 conten	t)	Unit t / year	2014	2015	2016	2017	2018	
		-/		I					
th	ylene oxide / glycols								
00	ol for calculating the historic	al activity leve	els for ethvler	e oxide / ethyle	ene alvcols s	ub-installatio	ns		
	This tool helps you determine the HAL	-	-	-					
	The result of this tool is automatically o						<i>,</i>		
(a)	Relevance of this tool in you	r installation:							
.,	This message is automatically generate		outs in sheet "A_Inst	allationData", section /	A. <i>III.</i> 1.				
(b)	Production data of Ethylene								
	Please enter here the annual production						.,		
	The table also displays the values of Cl							204.0	
	Ethylene oxide	CF(EOE) 1,000	Unit t / year	2014	2015	2016	2017	2018	
	Monoethylene glycol	0,710	t / year						
	Diethylene glycol	0,830	t / year						
	Triethylene glycol	0,880	t / year						
	Sum of products		t / year						
		ethylene oxide					at 8		
(c)	Result: Activity levels for the The historical activity level expressed in								
(c)	Result: Activity levels for the The historical activity level expressed in The result of this tool is used in sheet "	n tonnes of ethylene							
(c)	The historical activity level expressed in	n tonnes of ethylene						2018	
(c)	The historical activity level expressed in	n tonnes of ethylene F_ProductBM", input	t line (a).ii of the app	ropriate sub-installatio	n, from which the a	verage is calculated	<i>d.</i>	2018	
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/in	The historical activity level expressed in The result of this tool is used in sheet " Total Ethylene oxide equivalen	n tonnes of ethylene F_ProductBM*, input ts	t line (a).ii of the app Unit t / year	ropriate sub-installatio	n, from which the a	verage is calculated	<i>d.</i>	2018	
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<mark>/in</mark> /iny (a)	The historical activity level expressed in The result of this tool is used in sheet " Total Ethylene oxide equivalen yl chloride monomer (VCI yl chloride monomer tool: P This tool helps you determine the prelin The following data is required: - The activity levels a - The direct emission - Net amount of mea - Hydrogen related e Relevance of this tool in you This message is automatically generate	tonnes of ethylene F_ProductBM", input ts Preliminary alloc ninary allocation for as input in sheet "Pro- as attributed to this s surable heat importer missions: I.e. histori r installation: ad based on your inp	t line (a).ii of the app Unit t / year bccation (Articl the vinyl chloride mo oductBM", section (a ub-installation; al b p this sub-install cal heat consumptio	e 20 of the FAR normer ("VCM") sub-in), under the appropria ation from other ETS ii n from hydrogen comb	n, from which the a 2015) stallation (Article 2 te sub-Installation; nstallations; ustion multiplied w	verage is calculated 2016 2016 2016 2016 2016 2016 2016 2016	2017	2018	
<mark>/in</mark> /iny (a)	The historical activity level expressed in The result of this tool is used in sheet " Total Ethylene oxide equivalen yl chloride monomer (VCI yl chloride monomer tool: P This tool helps you determine the prelin The following data is required: - The direct emission - The direct emission - Net amount of mea - Hydrogen related e Relevance of this tool in youn This message is automatically generate Emission related data: Please enter here the data required as	tonnes of ethylene F_ProductBM", input ts Preliminary alloc ninary allocation for as input in sheet "Pro- as attributed to this s surable heat importer missions: I.e. histori r installation: ad based on your inp	t line (a).ii of the app Unit t / year Docation (Articl the vinyl chloride me boductBM*, section (the vinyl chloride me boductBM*, section (dub-installation; ad by this sub-install cal heat consumption buts in sheet "A_Inst	e 20 of the FAR e 20 of the FAR onomer ("VCM") sub-in), under the appropria ation from other ETS in n from hydrogen comb allationData", section /	n, from which the a 2015) stallation (Article 2 te sub-installation; nstallations; ustion multiplied w A.III. 1.	verage is calculated 2016 0 of the FAR).	d. 2017		
<mark>/in</mark> /iny (a)	The historical activity level expressed in The result of this tool is used in sheet " Total Ethylene oxide equivalen yl chloride monomer (VCI yl chloride monomer tool: P This tool helps you determine the prelin The following data is required: The following data is required: The following data is required: The direct emission Attact emission Hydrogen related e Relevance of this tool in your This message is automatically generate Emission related data: Please enter here the data required as Parameter Direct emissions Net measurable heat imported	tonnes of ethylene F_ProductBM", input ts reliminary alloc ninary allocation for as input in sheet "Pro- as attributed to this s surable heat importer missions: I.e. histori r installation: ad based on your inp outlined above.	t line (a).ii of the app Unit t / year bocation (Articl bocation (Articl the vinyl chloride mo oductBM", section (a dub-installation; ub-installation; al heat consumptio cal heat consumptio bouts in sheet "A_Inst Unit	e 20 of the FAR e 20 of the FAR onomer ("VCM") sub-in), under the appropria ation from other ETS in n from hydrogen comb allationData", section /	n, from which the a 2015) stallation (Article 2 te sub-installation; nstallations; ustion multiplied w A.III. 1.	verage is calculated 2016 0 of the FAR).	d. 2017		
<mark>/in</mark> /iny (a)	The historical activity level expressed in The result of this tool is used in sheet " Total Ethylene oxide equivalen yl chloride monomer (VCI yl chloride monomer tool: Pl This tool helps you determine the prelin The following data is required: - The activity levels a - The direct emission - Net amount of mea - Hydrogen related e Relevance of this tool in youn This message is automatically generated Emission related data: Please enter here the data required as Parameter Direct emissions	tonnes of ethylene F_ProductBM", input ts reliminary alloc ninary allocation for as input in sheet "Pro- as attributed to this s surable heat importer missions: I.e. histori r installation: ad based on your inp outlined above.	t line (a).ii of the app Unit t / year Docation (Articl bocation (Articl the vinyl chloride mo oductBM", section (a ub-installation; ad by this sub-installation; cal heat consumption buts in sheet "A_Inst Unit t CO2 / year	e 20 of the FAR e 20 of the FAR onomer ("VCM") sub-in), under the appropria ation from other ETS in n from hydrogen comb allationData", section /	n, from which the a 2015) stallation (Article 2 te sub-installation; nstallations; ustion multiplied w A.III. 1.	verage is calculated 2016 0 of the FAR).	d. 2017		

<<< Click here to proceed to next sheet >>>

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	Navigation area:	Table of contents	Previous sheet	Next sheet	Summary
MS specific	Top of sheet				
NO Specific	End of sheet				

I. Sheet "MSspecific" - ADDITIONAL DATA REQUIREMENTS BY THE MEMBER STATE

I To be defined by the Member State

	Navigation area:	Table of contents	Previous sheet	Next sheet	Summary
Comments	Top of sheet				
Comments	End of sheet				

J. Sheet "Comments" - COMMENTS AND FURTHER INFORMATION

I	Documents supporting this report
	Please list here all relevant documents which are submitted together with this report
	Additional documents will be needed to support this report. Please provide this information in an electronic format wherever possible.
	You can provide information as Microsoft Word, Excel, or Adobe Acrobat formats.
	If needed, check with your competent authority if other file formats than the ones mentioned above are acceptable.
	Additional documentation provided should be clearly referenced, and the file name / reference number provided below.
	You are advised to avoid supplying non-relevant information as it can slow down the approval of this report.
(a)	Monitoring methodology plan as required by Article 4(2)(b) of the FAR (mandatory): Please provide file name(s) (if in an electronic format) or document reference number(s) (if hard copy) below:

File name/Reference	Document description

(b) Verification report as required by Article 4(2)(c) of the FAR (mandatory): Please provide file name(s) (if in an electronic format) or document reference number(s) (if hard copy) below:

on			
pti	ption	ption	ption

(c) Justification for any data gaps Article 12(2) of the FAR requires to provide justification for any data gaps and description of the method used to close them.

No.	Affected data set (AD, EF, Heat, electricity,)	Sub-installation	Time period	Description of the data gap	Justification

(d) Other documents:

Please provide file name(s) (if in an electronic format) or document reference number(s) (if hard copy) below: Ι.

File name/Reference	Document description

II Free space for all kinds of supplemental information

In space below you can enter all information which was not suitable for input in other sheets and which you consider important for the competent authority

Navigation area: Top of sheet	Table of contents	Previous s	heet			
	Installation data	Baseline Period		Emissions &	Energy Flows	Sub-installation
End of sheet	Preliminary allocation					
Sheet "Summary" - OV	ERVIEW OF MOST IM	PORTANT DA	ГА			
-						
nstallation data						
eneral information (section	A.I):				_	
Installation Identifier:			N	lember State:		
Name of the installation: Operator Name:						
Verifier (company):						
Included in ETS before:		4	Small em	itter (Art. 27):		
Incumbent: Starting date:		-	Small omit	Hospital: ter (Art. 27a):	-	
Starting Gate.		_		Units < 300h:	-	
NACE code in 2010 (NACE	rev 2):	_		EPRTR ID:		
	nex I of the EU ETS Directive:					
1. 2.						
3.						
4. 5.						
6.						
echnical connections (secti	on A.IV):					
Connection Name		EUTL identifier, if	applicable		Entity Type	
1						
3						
45						
6						
7						
8						
10						
Electricity generator: Installation covered by Art. 1				CCS Installation		
It is mandatory that under A.	II.1 one of the questions (e) or (f)) is answered!				
Installation is eligible for fr	ree allocation under Article 10a	a of the EU ETS Dire	ctive:		Г	FAŁSZ
aseline years (Section A.II.2					L	
	7	2014	0045			
		2014	2015	2016	2017	2018
Year to be taken into accourt	nt:	FAŁSZ	FAŁSZ	2016 FAŁSZ	2017 FAŁSZ	2018 FAŁSZ
Year to be taken into accourt						
Year to be taken into accourt						
Year to be taken into accour missions and Energy Flo	WS	FAŁSZ	FAŁSZ	FAŁSZ	FAŁSZ	
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data:	WS	FAŁSZ	FAŁSZ	FAŁSZ	FAŁSZ	
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions	ws der "Source streams" (Sheet Unit t CO2 / year	FALSZ ts B+C) or from Er 2014	FAŁSZ	FAŁSZ mmary (secti	FAŁSZ on D.I)	FAŁSZ
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions Biomass emissions	ws der "Source streams" (Sheet Unit t CO2 / year t CO2 / year	FALSZ	FAŁSZ	FAŁSZ mmary (secti	FAŁSZ on D.I)	FAŁSZ
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions Biomass emissions Total N20 emissions Total PFC emissions	ws der "Source streams" (Sheet Unit t CO2 / year t CO2 / year t CO2 / year t CO2 / year t CO2 / year	FALSZ ts B+C) or from Er 2014 r r	FAŁSZ	FAŁSZ mmary (secti	FAŁSZ on D.I)	FAŁSZ
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions Biomass emissions Total PFC emissions Sum of direct emissions	ws der "Source streams" (Sheet Unit t CO2 / year t CO2 / year t CO2e/year t CO2e/year t CO2e/year	FALSZ	FAŁSZ	FAŁSZ mmary (secti	FAŁSZ on D.I)	FAŁSZ
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions Total N2O emissions Total PFC emissions Sum of direct emissions Transferred CO2 exported	ws der "Source streams" (Sheet Unit t CO2 / year t CO2 / year t CO2e/year t CO2e/year t CO2/ year t CO2/ year	FALSZ 5 B+C) or from Er 2014 r r r r r r r r r r	FAŁSZ	FAŁSZ mmary (secti	FAŁSZ on D.I)	FAŁSZ
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions Total PEC emissions Total PEC emissions Sum of direct emissions	ws der "Source streams" (Sheet Unit t CO2 / year t CO2 / year t CO2/year t CO2e/year t CO2/year t CO2 / year t CO2 / year t CO2 / year	FALSZ 5 B+C) or from Er 2014 7 7 7 7 7 7 7 7 7 7 7 7 7	FAŁSZ	FAŁSZ mmary (secti	FAŁSZ on D.I)	FAŁSZ
Year to be taken into accourt missions and Energy Flow ata resulting from input und Installation level data: Total CO2 emissions Total N20 emissions Total N20 emissions Total PFC emissions Transferred CO2 exported Total direct emissions of ti	WS der "Source streams" (Sheet Unit t CO2 / year	FALSZ 5 B+C) or from Er 2014 7 7 7 7 7 7 7 7 7 7 7 7 7	FAŁSZ	FAŁSZ mmary (secti	FAŁSZ on D.I)	FAŁSZ
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions Biomass emissions Total N2O emissions Total PFC emissions Total PFC emissions Transferred CO2 exported Total direct emissions of the Total energy input from fue	WS der "Source streams" (Sheet Unit t CO2 / year t CO2 / year t CO2e/year t CO2e/year t CO2e/year t CO2e/year t CO2/ year he installation t CO2e/year	FALSZ	FAŁSZ	FAŁSZ mmary (secti	FAŁSZ on D.I)	FAŁSZ
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions Biomass emissions Total PEC emissions Total PEC emissions Transferred CO2 exported Total direct emissions of the Total energy input from functions the second second second second second Total energy input from functions to second s	WS der "Source streams" (Sheet Unit t CO2 / year t CO2 / year t CO2e/year t CO2e/year t CO2e/year t CO2e/year t CO2/ year he installation t CO2e/year	FALSZ	FALSZ	FALSZ	FAŁSZ on D.I)	FAŁSZ
Year to be taken into accourt missions and Energy Flow ata resulting from input und Installation level data: Total CO2 emissions Total N2O emissions Total N2O emissions Total PFC emissions Sum of direct emissions of the Total direct emissions of the Total energy input from fue ttribution of emissions to su Data is taken automatically from con The attributable emissions are deter	WS der "Source streams" (Sheet Unit t CO2 / year t CO2 / year t CO2 / year t CO2e/year t C	FALSZ	FALSZ	FALSZ mmary (secti 2016	FALSZ	EALSZ 2018
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions Total N20 emissions Total N20 emissions Total PFC emissions Transferred CO2 exported Total direct emissions of Total direct emissions of Total direct emissions of trate energy input from fue ttribution of emissions are deter Data is taken automatically form cor The attributable emissions are deter a The direct emissions are deter	WS User "Source streams" (Sheet Unit t CO2 / year be installation t CO2 / year ub-installations (section D.II) rresponding entries in sheets F and G in th	FALSZ	FALSZ	FALSZ mmary (secti 2016	FALSZ	EALSZ 2018
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions Biomass emissions Total N2O emissions Total N2O emissions Total PFC emissions Transferred CO2 exported Total direct emissions of the Total energy input from four the attributable emissions to su Data is taken automatically from cor The attributable emissions are deter a the attributable emissions are deter = The direct emissions are deter	WS Unit Unit t CO2 / year t CO2 / year t CO2 / year t CO2 / year t CO2e/year t CO2e/year t CO2e/year t CO2e/year t CO2e/year t CO2e/year t CO2 / year ub-installation t CO2e/year els TJ / year ub-installations (section D.II) rresponding entries in sheets F and G in tt mined as follows: sions are monitored in line with the MP ap	FALSZ	FALSZ	FALSZ mmary (secti 2016	FALSZ	EALSZ 2018
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions Total N2O emissions Total N2O emissions Total PFC emissions Transferred CO2 exported Total direct emissions of th Total energy input from fue the atributable emissions are deter attribution of emissions to su Data is taken automatically from cor The attributable emissions are deter = The direct emissions streams), meas +/- Emissions aso +/- Amount of GHG	WS der "Source streams" (Sheet Unit t CO2 / year t co2 /	FALSZ	FALSZ	FALSZ	FALSZ	EALSZ 2018
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions Total N2O emissions Total N2O emissions Total PFC emissions Transferred CO2 exported Total direct emissions of the Total energy input from fue ttribution of emissions to su Data is taken automatically from cor The attributable emissions are deter = The direct emissions are deter +/- Emissions asso +/- Amount of GHC + Emissions asso	WS der "Source streams" (Sheet Unit t CO2 / year t CO2 / year t CO2 / year t CO2e/year t Solows: bios are monitored in sheets F and G in th mined as follows: sions are monitored in line with the MP ap urement based methodologies (CEMS) as socialed with further internal source streams is imported and exported as feedstock cided with imported heat in accordance w	FALSZ	FALSZ	FALSZ mmary (secti 2016	FALSZ	EALSZ 2018
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions Biomass emissions Total N2O emissions Total PFC emissions Transferred CO2 exported Total direct emissions of th Total direct emissions of th Total direct emissions to su tribution of emissions to su Data is taken automatically from cor The attributable emissions are deter = The direct emissions are deter = The direct emissions are deter + - Emissions asso + - Amount of GHG + Emissions asso - Emissions asso	WS der "Source streams" (Sheet Unit t CO2 / year t co2 /	FALSZ	FALSZ nissions sur 2015 action sub-installati action sub-installati action sub-installati action s ('fall-backs'). 1.3 of Annex VII 1.3 of Annex VII	FALSZ mmary (secti 2016	FALSZ	EALSZ 2018
Year to be taken into accour missions and Energy Flor ata resulting from input und Installation level data: Total CO2 emissions Total N20 emissions Total N20 emissions Total PFC emissions Transferred CO2 exported Total direct emissions of th Total energy input from fue tribution of emissions to su Data is taken automatically from cor The attributable emissions are deter = The direct emissions are streams), measi +/ Emissions asso - Emissions asso - Emissions asso - Emissions asso	WS der "Source streams" (Sheet Unit t CO2 / year be installation t CO2 / year ub-installations (section D.II) responding entries in sheets F and G in tf mined as follows: soina are monitored in line with the MP ap urement based methodologies (CEMS) as sociated with further internal source streams is imported and exported as feedstock coiated with imported heat in accordance w coiated with exported waste gases in accor coiated with exported waste gases in accor	FALSZ	FALSZ nissions sur 2015 2015 2015 2015 2015 2015 2015 2015	FALSZ mmary (secti 2016	FALSZ	FAŁSZ 2018
Year to be taken into accourt Temissions and Energy Flor Data resulting from input und Installation level data: Total CO2 emissions Total N2O emissions Total N2O emissions Total PFC emissions Transferred CO2 exported Total direct emissions of the Total energy input from fue Attribution of emissions to success Data is taken automatically from cord The attributable emissions are deter attributable emissions are deter +/- Emissions asso +/- Amount of GHG + Emissions asso - Emissions asso	WS User "Source streams" (Sheet Unit t CO2 / year t cor control of the installation t CO2 / year be installation t CO2 / year be installations (section D.II) rresponding entries in sheets F and G in th mined as follows: sions are monitored in line with the MP ap urement based methodologies (CEMS) as sociated with imported heat in accordance w iciated with imported waste gases in accord	FALSZ	FALSZ nissions sur 2015 2015 ach sub-installati ach sub-insta	FALSZ mmary (secti 2016	FALSZ	FAŁSZ

There are cases where the attributable emissions cannot be calculated for the draft preliminary allocation because the heat BM or fuel BM values are needed for the calculation. In such case, no values for the attributable emissions will be displayed as indicated by "not applicable (N.A.)". Those cases are:

- where no emission factor for imported or exported heat is applicable or known, i.e. where no such value has been entered. In such cases default values based on the heat BM will be used for calculating the attributable emissions, once known.

- where waste gases are imported. In this case the fuel BM will be used, once known.

The value "other emissions" is displayed for control purposes. It include emissions related to electricity production, flaring other than safety flaring, and other emissions which do not lead to free allocation.

If for at least one sub-installation 'not applicable (N.A.)" is shown for any given year, the values for "other emissions" will not be shown either, in order to avoid any confusion.

 Sub-installation level data:
 Unit
 2014
 2015
 2016
 2017
 2018

 t CO2e/year

 2018
 2017
 2018

 2017
 2018

 2017
 2018

 2017
 2018

	t CO2e/vear					
	t CO2e/year					
	t CO2e/year					
	t CO2e/year					
	t CO2e/year					
Heat benchmark sub-installation, CL	t CO2e/year					
Heat benchmark sub-installation, non-CL	t CO2e/year					
District heating sub-installation	t CO2e/year					
Fuel benchmark sub-installation, CL	t CO2e/year					
Fuel benchmark sub-installation, non-CL	t CO2e/year					
Process emissions sub-installation, CL	t CO2e/year					
Process emissions sub-installation, non-	t CO2e/year					
Control: Other emissions	t CO2e/year					
Sub-installation level data:	Unit	2014	2015	2016	2017	2018
	%					
	%					
	%					
	%					
	%					
	%					
	%					
	%					
	%					
	%					
Heat benchmark sub-installation, CL	%					
Heat benchmark sub-installation, non-CL	%					
District heating sub-installation	%					
Fuel benchmark sub-installation, CL	%					
Fuel benchmark sub-installation, non-CL	%					
Process emissions sub-installation, CL	%					
Process emissions sub-installation, non-	%					

3 Cogeneration tool - Section D.III

(a)	Cogeneration tool 1						
	Energy balance	Unit	2014	2015	2016	2017	2018
	Fuel input into CHP	TJ / year					
	Heat output from CHP	TJ / year					
	Electricity output from CHP TJ / year						
	Emissions Unit		2014	2015	2016	2017	2018
	From fuel input to CHP t CO2 / ye						
	From flue gas cleaning	t CO2 / year					
	Total emissions	t CO2 / year					
	Efficiencies	Unit	2014	2015	2016	2017	2018
	Heat production	-					
	Electricity production	-					
	Heat production (reference)	-	90,00%	90,00%	92,00%	92,00%	92,00%
	Electricity production (reference)	-	52,50%	52,50%	53,00%	53,00%	53,00%
	Results	Unit	2014	2015	2016	2017	2018
	Emissions attributable to heat output	t CO2 / year					
	Emission factor, heat	t CO2 / TJ					
	Fuel input for heat	TJ / year					
	Fuel input for electricity	TJ / year					
(b)	Cogeneration tool 2						
	Energy balance	Unit	2014	2015	2016	2017	2018
	Fuel input into CHP	TJ / year					
	Heat output from CHP	TJ / year					
	Electricity output CHP	TJ / year					
	Emissions	Unit	2014	2015	2016	2017	2018
	Frank for the state OUID	1000 /					

Energy balance	Unit	2014	2015	2016	2017	2018
Fuel input into CHP	TJ / year					
Heat output from CHP	TJ / year					
Electricity output CHP	TJ / year					
Emissions	Unit	2014	2015	2016	2017	2018
From fuel input to CHP	t CO2 / year					
From flue gas cleaning	t CO2 / year					
Total emissions	t CO2 / year					
Efficiencies	Unit	2014	2015	2016	2017	2018
Heat production	-					
Electricity production	-					
Heat production (reference)	-	90,00%	90,00%	92,00%	92,00%	92,00%
Electricity production (reference)	-	52,50%	52,50%	53,00%	53,00%	53,00%
Results	Unit	2014	2015	2016	2017	2018
Emissions attributable to heat output	t CO2 / year					
Emission factor, heat	t CO2 / TJ					
Fuel input for heat	TJ / year					
Fuel input for electricity	TJ / year					

4 Waste gas tool (waste gases not covered by product benchmarks) - Section D.IV

(a) This section relates to the process emissions sub-installation of this type:

This section relates to the process emission	13 300-1113181181	ion or una type				
Type of waste gas:						
	Unit	2014	2015	2016	2017	2018
Uncorrected process emissions	t CO2e/year					
Emissions from waste gases	t CO2e/year					
Amount of waste gas per year	1000Nm3/year					
Net calorific value	GJ/1000Nm3					
Deduction for waste gases	t CO2 / year					
Result of waste gas tool:	t CO2 / year					
Reference efficiency for production of electricit	y:	usi	ng natural gas:	52,50%	u	sing waste gas:

(b) This section relates to the process emissions sub-installation of this type: Type of waste gas:

i ype of waste gas.							
	Unit	2014	2015	2016	2017	2018	
Uncorrected process emissions	t CO2e/year						
Emissions from waste gases	t CO2e/year						

Amount of waste gas per year	1000Nm3/year			
Net calorific value	GJ/1000Nm3			
Deduction for waste gases	t CO2 / year			
Result of waste gas tool:	t CO2 / year			
Reference efficiency for production of	electricity:	using natural gas:	52,50%	using waste gas:

5 Energy input from fuels - split into use categories (Section E.I)

Usage type of fuel input	Unit	2014	2015	2016	2017	2018
Fuel input for production of measurable heat	TJ / year					
Fuel input for electricity production	TJ / year					
Fuel input to product BM sub-installations	TJ / year					
Fuel benchmark sub-installation, CL	TJ / year					
Fuel benchmark sub-installation, non-CL	TJ / year					
Rest	TJ / year					
Fuel input to each sub-installation from she	ets F and G:					
· · ·	TJ / year					
	TJ / year					
	TJ / year					
	TJ / year					
	TJ / year					
	TJ / year					
	TJ / year					
	TJ / year					
	TJ / year					
	TJ / year					
Heat benchmark sub-installation, CL	TJ / year					
Heat benchmark sub-installation, non-CL	TJ / year					
District heating sub-installation	TJ / year					
Fuel benchmark sub-installation, CL	TJ / year					
Fuel benchmark sub-installation, non-CL	TJ / year					

6 Calculation of measurable heat (Section E.II)

	Total not amount of managemethic bast and du	and in the inete	lletter.				
(a)	Total net amount of measurable heat produc		2014	2015	2016	2017	2010
	Measurable heat produced	Unit	2014	2015	2016	2017	2018
		TJ/year					
(b)	Measurable heat imported from installations		1			. .	
	Name of installation	Unit	2014	2015	2016	2017	2018
		TJ / year					
		TJ / year					
	Sub total	TJ / year					
	Sub-total	TJ / year					
(c)	Measurable heat imported from installations	and entities n	ot covered by t	he EU ETS (no	t eligible for he	at benchmark):	
	Name of installation or entity	Unit	2014	2015	2016	2017	2018
		TJ / year					
		TJ / year					
		TJ / year					
	Sub-total	TJ / year					
(d)	Measurable heat produced from electricity						
	Heat from electricity	TJ / year					
(0)	Sum of measurable heat available at installa	tion (=a+b+c)					
(e)	Total measurable heat	TJ / year					
		i o / yeai					
(f)	Ratio of "ETS heat" to "Total heat"						
	Heat input ratio (a+b) / (a+b+c):	%					
(q)	Measurable heat consumed for electricity pr	oduction withi	n the installation	n (not eligible	for heat bench	mark):	
			2014	2015	2016	2017	2018
	Heat used for electricity production	TJ / year					
	Amount of heat from non-ETS sources	TJ / year					
	Manual override of (ii)	TJ / year					
(h)	Measurable heat consumed for product ben	chmark sub-in	stallations with	in the installati	on (not eligible	for heat hencl	mark).
(11)	incusurable neur bensamen for product ben	Unit	2014	2015	2016	2017	2018
		TJ / year	2014	2013	2010	2017	2010
		TJ / year					
		TJ / year					
		TJ / year					
		TJ / year					
		TJ / year					
		TJ / year					
		TJ / year					
		TJ / year					
		TJ / year					
	Sub-total	TJ / year					
	Values entered in sheet "F_ProductBM":						
	Amount of heat from non-ETS sources	TI/waar					
		TJ / year					
	Non-ETS heat entered in sheet "F_ProductE	M" compared	to total amount	of heat for all	product bench	narks:	
	Point xii in relation to point xi:	%					
	Non-ETS heat entered in sheet "F_ProductE	M" compared	to total amount	of non-ETS he	at imports ente	red above und	er point (c):
	Point xii in relation to point (c) above:	%					1 1 1 1 1
~			n ah marik).				
(i)	Heat exported to ETS installations (not eligi			0045	0010	0047	0040
	Name of installation	Unit	2014	2015	2016	2017	2018
		TJ / year					
		TJ / year					
		TI/veet					
		TJ / year					
		TJ / year					
	Total beat exported to ETS installations	TJ / year TJ / year					
	Total heat exported to ETS installations	TJ / year TJ / year TJ / year					
(i)	Total heat exported to ETS installations Sub-total: remaining total measurable heat,	TJ / year TJ / year TJ / year	onging to heat	benchmark suk	o-installations (=e-g-h-i):	
(i)		TJ / year TJ / year TJ / year	onging to heat	benchmark sub 2015	o-installations (2016	=e-g-h-i): 2017	2018

 Unit
 2014
 2015
 2016
 2017
 2017

 Sub-total:
 TJ / year
 Image: Constraint of the second second

-	corrected eligibility ratio (=(j).ii / (j).i):		70		dan bi da di			
	Net amount measurable heat consumed in Heat consumed within the installation		vear	and eligible un	der neat bench	mark:		
-	Heat exported to installations or entities no				district heating	networks):		
	Name of receiving entity or installation		Unit	2014		2016	2017	
		TJ	l / year					
			/ year					
			l / year l / year					
			/ year					
-	Total heat exported to outside ETS:	TJ	l / year					
(n)	Heat losses (=j-l-m)							
-	Heat losses (calculated)		Unit / vear	2014	2015	2016	2017	
	Heat losses (fraction of heat available = e)	IJ	%					
(0) ⁻	Total amount of heat potentially part of the	heat b	enchma	k or district he	ating sub-insta	llations (=I+m):		
	Total heat benchmark sub-installations:		l / year					
(p)	Final result: Amount of heat attributable to	heat b	enchmar	k or district hea	ating sub-insta	llations		
-			Unit	2014	2015	2016	2017	
	Heat eligible for heat benchmark sub- installations	тJ	/ year					
-		otollot	iono					
sumi	mary of heat and district heating sub-in		Unit	2014	2015	2016	2017	:
ſ	Heat benchmark sub-installation, CL		/ year	2014	2013	2010	2017	
	Heat benchmark sub-installation, non-CL		/ year					
	District heating sub-installation	ТJ	/ year					
• - m	plete balance of waste gases at the inst	allatio						
	Waste gases produced within the system b Sub-installation		ries of a Unit	2014 product bench	1	2016	2017	
Ī			l / year	2014	2013	2010	2017	
			l / year					
			l / year l / year					
			/ year					
			l / year					
			l / year					
-			l / year l / year					
			/ year					
	Sub-total		l / year					
(b)	Waste gases produced outside the system	bound	laries of	a product benc	hmark sub-inst	allation		
	from section D.IV.		Unit	2014	2015	2016	2017	
	Waste gas 1 Waste gas 2		l / year l / year					
-	Sub-total		/ year					
(c)	Sum of waste gases (=a+b)							
-	Waste gases produced	TJ	l / year					
	Waste gases imported from other installation	ons or	entities					
-	Name of installation or entity		Unit / year	2014	2015	2016	2017	;
			/ year					
			/ year					
-	Sub-total	TJ	l / year					
	Waste gases exported to other installations	s or en	tities					
-	Name of installation or entity		Unit	2014	2015	2016	2017	;
-			l / year I / year					
			/ year					
	Sub-total	TJ	l / year					
-	Sum of waste gases available at installation							
(f)	Waste gases available	TJ	l / year					
(f)	-		المرادية الم					
(f)	Waste gases consumed within product ben						2017	
(f)	-		Unit	stallations 2014	2015	2016		
(f)	Waste gases consumed within product ben	TJ			2015	2016		
(f)	Waste gases consumed within product ben	TJ TJ TJ	Unit / year / year / year		2015	2016		
(f)	Waste gases consumed within product ben	TJ TJ TJ TJ	Unit /year /year /year /year		2015	2016		
(f)	Waste gases consumed within product ben	TJ TJ TJ TJ TJ	Unit /year /year /year /year		2015	2016		
(f)	Waste gases consumed within product ben	TJ TJ TJ TJ TJ TJ	Unit /year /year /year /year		2015	2016		
(f)	Waste gases consumed within product ben	TJ TJ TJ TJ TJ TJ TJ TJ TJ	Unit /year /year /year /year /year /year		2015	2016		
(f) 	Waste gases consumed within product ben	TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ	Unit / year / year / year / year / year / year / year / year / year		2015	2016		
(f) (g)	Waste gases consumed within product ben	TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ	Unit / year / year / year / year / year / year / year / year / year		2015	2016		
(f) (g)	Waste gases consumed within product ber Type of product BM sub-installation	TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ	Unit / year / year / year / year / year / year / year / year / year / year		2015	2016		
(f) (g) - - - - - - - - - - - - - - - - - - -	Waste gases consumed within product ber Type of product BM sub-installation	TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ	Unit / year / year / year / year / year / year / year / year / year / year				2017	
(f) (g) - - - - - - - - - - - - - - - - - - -	Waste gases consumed within product ben Type of product BM sub-installation Sub-total Waste gases consumed within fall-back su Type of fall-back sub-installation Heat benchmark sub-installation, CL	TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ	Unit //year	2014			2017	
(f) (g) - - - - - - - - - - - - - - - - - - -	Waste gases consumed within product ber Type of product BM sub-installation	TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ T	Unit // year // year // year // year // year // year // year // year // year // year J/ year	2014			2017	
(f) (g) 	Waste gases consumed within product ber Type of product BM sub-installation Sub-total Waste gases consumed within fall-back su Type of fall-back sub-installation Heat benchmark sub-installation, CL Heat benchmark sub-installation, non-CL District heating sub-installation, non-CL	TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ T	Unit // year // year	2014			2017	
(f) (g) 	Waste gases consumed within product ber Type of product BM sub-installation	TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ T	Unit // year // year // year // year // year // year // year // year // year // year J/ year	2014			2017	
(f) (g)	Waste gases consumed within product ber Type of product BM sub-installation Sub-total Waste gases consumed within fall-back su Type of fall-back sub-installation Heat benchmark sub-installation, non-CL District heating sub-installation, non-CL Fuel benchmark sub-installation, CL	TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ T	Unit // year // year	2014			2017	
(f) (g) (h)	Waste gases consumed within product ber Type of product BM sub-installation	TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ T	Unit // year // year	2014			2017	
(f) (g) (h)	Waste gases consumed within product ber Type of product BM sub-installation	TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ TJ T	Unit // year // year	2014			2017	
(f) (g) (h) (i)	Waste gases consumed within product ber Type of product BM sub-installation Sub-total Sub-total Waste gases consumed within fall-back sui Type of fall-back sub-installation Heat benchmark sub-installation, non-CL District heating sub-installation, non-CL District heating sub-installation, non-CL Fuel benchmark sub-installation, non-CL Fuel benchmark sub-installation, non-CL Fuel benchmark sub-installation, non-CL Sub-total Amount of waste gases consumed for the p Waste gases for electricity	TJ TJ	Unit // year // year aring	2014	2015	2016		
(f) (g) (h) (i) (j)	Waste gases consumed within product ber Type of product BM sub-installation Sub-total Waste gases consumed within fall-back su Type of fall-back sub-installation Heat benchmark sub-installation, non-CL District heating sub-installation, non-CL District heating sub-installation, non-CL Fuel benchmark sub-installation, non-CL Sub-total Amount of waste gases consumed for the p Waste gases for electricity	TJ TJ	Unit // year // year	2014	2015		2017	

		TJ / year			
		TJ / year			
		TJ / year			
		TJ / year			
		TJ / year			
		TJ / year			
		TJ / year			
		TJ / year			
	produced outside product BM sub-	TJ / year			
	installations				
	Sub-total	TJ / year			
(k)	Plausibility check				
	Difference (calculated)	TJ / year			
	Difference (as fraction of f)	%			

8 Complete balance of electricity at the installation

Does the installation produce electricity?	?					
	Unit	2014	2015	2016	2017	2018
Net electricity produced from fuels	MWh / year					
Other electricity produced	MWh / year					
Electricity imported	MWh / year					
Electricity exported	MWh / year					
Electricity useable	MWh / year					
Electricity consumed in the installation	MWh / year					

IV Sub-installation data relevant for allocation and benchmark update purposes

Calculation of the indicative number of allowances

The following abbreviation	is are used in the tables below:
CL-exposed	Carbon leakage exposure. "True" if the sub-installation serves a sector deemed to be exposed to a significant risk of carbon leakage.
No. of BM	Number of the Benchmark
Started	Start of operation of the sub-installation
BM value	Value of the benchmark according to Annex I of the FAR. For the draft preliminary application, values used are either the indicative minimum or the maximum values as shown included in each sub-installation's overview table below.
15(7).3?	Is the third sub-paragraph of Article 15(7) of the FAR relevant (i.e. has the sub-installation been operated less than one year in the baseline period)?
15(7).3 HAL	The historic activity level, if the third sub-paragraph of Article 15(7) applies. Note that this value will only be known after the first activity level report will be submitted.
ElExch?	Is exchangeability of electricity and fuel relevant for this sub-installation?
ElExch-F	Calculation factor for taking into account the exchangeability of electricity and fuel in accordance with Article 22 of the FAR
non-ETS heat	Amount to be deducted from the preliminary annual amount of allowances in accordance with Article 21 of the FAR
WGflare	Amount to be deducted from the preliminary annual amount of allowances for flared waste gases from 2026 onwards in accordance with the second sub-paragraph of Article 16(5) of the FAR
HVC-Corr	Amount to be added to the preliminary annual amount of allowances for steam cracking sub-installations in accordance with Article 19 of the FAR
VCM-F	Calculation factor for taking into account hydrogen-related emissions in vinylchloride monomer sub-installations in accordance with Article 20 of the FAR
Average	Average of the historical activity levels in the baseline period
Prelim Alloc Year 1 (min)	(Draft) preliminary annual number of emission allowances allocated free of charge for the first year of the period in accordance with Article 16(6) of the FAR, i.e. after application of the CL exposure factor, but before linear factor or cross-sectoral correction factor are applied.
	This figure only provides an indicative estimate of the "minimum" preliminary allocation taking into account the lowest possible benchmark value for this sub-installation. The figure is therefore only indicative and should NOT be understood as pre-judgement of the actual free allocation number to be determined by the competent authority once the updated benchmarks are available.
Prelim Alloc Year 1 (max)	(Draft) preliminary annual number of emission allowances taking into account the highest possible benchmark value for this sub-installation. The same disclaimer as for the (min) value applies.
Prelim Alloc Year 1 (actual)	The actual preliminary annual number of emission allowances taking into account the actual benchmark value for this sub-installation. For the initial NIMs this value cannot be determined, but only at a later stage, once the benchmark values for each allocation period have been published.

Disclaimer: Please note that the values for the preliminary allocation are only indicative taking into account the minimum or maximum benchmark values as explained above. However, where the preliminary allocation also depends on the heat or fuel benchmark value (e.g. ElExch-F or non-ETS heat), which are also subject to change based on this data collection, the indicative value might not even represent the minimum or maximum preliminary number of allowances, but undergo further correction.

1 Sub-installation with product benchmark 1:

instantion with	product be	merinark r.							
			CL-exposed	EIExch?	Started	No. of BM	15(7).3?	BM value (min/	max/actual)
			N.A.		N.A.	N.A.		N.A.	EUA/tonnes
		non-ETS heat	WGflare	ElExch-F	HVC-Corr	VCM-F	15(7).3 HAL	N.A.	EUA/tonnes
Special factors:				1,0000				N.A.	EUA/tonnes
			Unit	2014	2015	2016	2017	2018	
HAL (Historic activi	ity level) rep	orted	tonnes						Average
Values used for HA	AL calculation	n:	tonnes						
HAI	L total			Prelim Alloc Ye	ar 1 (min)	Prelim Alloc Ye	ar 1 (max)	Prelim Alloc Ye	ar 1 (actual)
		tonnes / year			EUA / vear		EUA / vear		EUA / vear

	Unit	2014	2015	2016	2017	2018
Total attributed emissions	t CO2e/year					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Direct emissions	t CO2 / year					
Further source streams - 1	t CO2 / year					
Further source streams - 2	t CO2 / year					
GHG imported or exported	t CO2e/year					
Net heat imported	TJ / year					
Specific EF (imported heat)	t CO2 / TJ					
Net heat imported from pulp	TJ / year					
Net heat imported from nitric acid sub-	TJ / year					
Net heat exported	TJ / year					
Specific EF (exported heat)	t CO2 / TJ					
Waste gas produced	TJ / year					
Specific EF (produced waste gas)	t CO2 / TJ					
Waste gas consumed	TJ / year					
Specific EF (consumed waste gas)	t CO2 / TJ					
Waste gas flared	TJ / year					

Specific EF (flared waste gas)	t CO2 / TJ			
Waste gas imported	TJ / year			
Specific EF (imported waste gas)	t CO2 / TJ			
Waste gas exported	TJ / year			
Specific EF (exported waste gas)	t CO2 / TJ			
Relevant electricity consumption	MWh / year			
Electricity produced	MWh / year			
Total amount of pulp produced	tonnes			
Intermediate import:				
	tonnes			
	tonnes			
Intermediate export:				
	tonnes			
	tonnes			

2 Sub-installation with product benchmark 2:

		CL-exposed	EIExch?	Started	No. of BM	15(7).3?	BM value (min/	max/actual)
		N.A.		N.A.	N.A.		N.A.	EUA/tonnes
	non-ETS heat	WGflare	ElExch-F	HVC-Corr	VCM-F	15(7).3 HAL	N.A.	EUA/tonnes
Special factors:			1,0000				N.A.	EUA/tonnes
		Unit	2014	2015	2016	2017	2018	
HAL (Historic activity level) rep	orted	tonnes						Average
Values used for HAL calculatio	n:	tonnes						
HAL total			Prelim Alloc Yea	ar 1 (min)	Prelim Alloc Ye	ar 1 (max)	Prelim Alloc Ye	ar 1 (actual)
	tonnes / year			EUA / year		EUA / year		EUA / year

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	Unit	2014	2015	2016	2017	2018
Total attributed emissions	t CO2e/year					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Direct emissions	t CO2 / year					
Further source streams - 1	t CO2 / year					
Further source streams - 2	t CO2 / year					
GHG imported or exported	t CO2e/year					
Net heat imported	TJ / year					
Specific EF (imported heat)	t CO2 / TJ					
Net heat imported from pulp	TJ / year					
Net heat imported from nitric acid sub-	TJ / year					
Net heat exported	TJ / year					
Specific EF (exported heat)	t CO2 / TJ					
Waste gas produced	TJ / year					
Specific EF (produced waste gas)	t CO2 / TJ					
Waste gas consumed	TJ / vear					-
Specific EF (consumed waste gas)	t CO2 / TJ					
Waste gas flared	TJ / year					
Specific EF (flared waste gas)	t CO2 / TJ					
Waste gas imported	TJ / year					
Specific EF (imported waste gas)	t CO2 / TJ					
Waste gas exported	TJ / year					
Specific EF (exported waste gas)	t CO2 / TJ					
Relevant electricity consumption	MWh / year					
Electricity produced	MWh / year					
Total amount of pulp produced	tonnes					
Intermediate import:						
	tonnes					
	tonnes					
Intermediate export:					•	
	tonnes					
	tonnes					

3	Sub-installation with product b	enchmark 3:							
]	CL-exposed	ElExch?	Started	No. of BM	15(7).3?	BM value (min/	max/actual)
			N.A.		N.A.	N.A.		N.A.	EUA/tonnes
		non-ETS heat	WGflare	EIExch-F	HVC-Corr	VCM-F	15(7).3 HAL	N.A.	EUA/tonnes
	Special factors:			1,0000				N.A.	EUA/tonnes
			Unit	2014	2015	2016	2017	2018	
	HAL (Historic activity level) rep	orted	Unit tonnes	2014	2015	2016	2017	2018	Average
	HAL (Historic activity level) rep Values used for HAL calculation			2014	2015	2016	2017	2018	
			tonnes tonnes	2014 Prelim Alloc Yea		2016 Prelim Alloc Yea		2018 Prelim Alloc Ye	Average

	Unit	2014	2015	2016	2017	2018
Total attributed emissions	t CO2e/year					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Direct emissions	t CO2 / year					
Further source streams - 1	t CO2 / year					
Further source streams - 2	t CO2 / year					
GHG imported or exported	t CO2e/year					
Net heat imported	TJ / year					
Specific EF (imported heat)	t CO2 / TJ					
Net heat imported from pulp	TJ / year					
Net heat imported from nitric acid sub-	TJ / year					
Net heat exported	TJ / year					
Specific EF (exported heat)	t CO2 / TJ					

Waste gas produced	TJ / year			
Specific EF (produced waste gas)	t CO2 / TJ			
Waste gas consumed	TJ / year			
Specific EF (consumed waste gas)	t CO2 / TJ			
Waste gas flared	TJ / year			
Specific EF (flared waste gas)	t CO2 / TJ			
Waste gas imported	TJ / year			
Specific EF (imported waste gas)	t CO2 / TJ			
Waste gas exported	TJ / year			
Specific EF (exported waste gas)	t CO2 / TJ			
Relevant electricity consumption	MWh / year			
Electricity produced	MWh / year			
Total amount of pulp produced	tonnes			
Intermediate import:				
	tonnes			
	tonnes			
Intermediate export:				
	tonnes			
	tonnes			

4 Sub-installation with product benchmark 4:

	p								
			CL-exposed	ElExch?	Started	No. of BM	15(7).3?	BM value (min/	max/actual)
			N.A.		N.A.	N.A.		N.A.	EUA/tonnes
		non-ETS heat	WGflare	ElExch-F	HVC-Corr	VCM-F	15(7).3 HAL	N.A.	EUA/tonnes
Special factors:				1,0000				N.A.	EUA/tonnes
			Unit	2014	2015	2016	2017	2018	
HAL (Historic activi	ity level) repo	orted	tonnes						Average
Values used for HA	AL calculation	ו:	tonnes						
HA	L total			Prelim Alloc Yea	ar 1 (min)	Prelim Alloc Ye	ar 1 (max)	Prelim Alloc Ye	ar 1 (actual)
		tonnes / year			EUA / year		EUA / year		EUA / year

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	Unit	2014	2015	2016	2017	2018
Total attributed emissions	t CO2e/year					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Direct emissions	t CO2 / year					
Further source streams - 1	t CO2 / year					
Further source streams - 2	t CO2 / year					
GHG imported or exported	t CO2e/year					
Net heat imported	TJ / year					
Specific EF (imported heat)	t CO2 / TJ					
Net heat imported from pulp	TJ / year					
Net heat imported from nitric acid sub-	TJ / year					
Net heat exported	TJ / year					
Specific EF (exported heat)	t CO2 / TJ					
Waste gas produced	TJ / year		[
Specific EF (produced waste gas)	t CO2 / TJ					
Waste gas consumed	TJ / year					
Specific EF (consumed waste gas)	t CO2 / TJ					
Waste gas flared	TJ / year					
Specific EF (flared waste gas)	t CO2 / TJ					
Waste gas imported	TJ / year					
Specific EF (imported waste gas)	t CO2 / TJ					
Waste gas exported	TJ / year					
Specific EF (exported waste gas)	t CO2 / TJ					
Relevant electricity consumption	MWh / year					
Electricity produced	MWh / year					
Total amount of pulp produced	tonnes					
Intermediate import:						
	tonnes					
	tonnes					
Intermediate export:						
	tonnes					
	tonnes					

5	Sub-installation with product b	enchmark 5:							
			CL-exposed	EIExch?	Started	No. of BM	15(7).3?	BM value (min/	max/actual)
			N.A.		N.A.	N.A.		N.A.	EUA/tonnes
		non-ETS heat	WGflare	ElExch-F	HVC-Corr	VCM-F	15(7).3 HAL	N.A.	EUA/tonnes
	Special factors:			1,0000				N.A.	EUA/tonnes
			Unit	2014	2015	2016	2017	2018	
	HAL (Historic activity level) rep	oorted	tonnes						Average
	Values used for HAL calculation	on:	tonnes						
	HAL total			Prelim Alloc Yea	ar 1 (min)	Prelim Alloc Ye	ar 1 (max)	Prelim Alloc Ye	ar 1 (actual)
		tonnes / year			EUA / year		EUA / year		EUA / year

	Unit	2014	2015	2016	2017	2018
Total attributed emissions	t CO2e/year					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Direct emissions	t CO2 / year					
Further source streams - 1	t CO2 / year					
Further source streams - 2	t CO2 / year					
GHG imported or exported	t CO2e/year					
Net heat imported	TJ / vear					

Specific EF (imported heat)	t CO2 / TJ				
Net heat imported from pulp	TJ / year				
Net heat imported from nitric acid sub-	TJ / year				
Net heat exported	TJ / year	ſ	ſ	ſ	
Specific EF (exported heat)	t CO2 / TJ				
Waste gas produced	TJ / year	ſ	ſ	ſ	
Specific EF (produced waste gas)	t CO2 / TJ				
Waste gas consumed	TJ / year				
Specific EF (consumed waste gas)	t CO2 / TJ				
Waste gas flared	TJ / year				
Specific EF (flared waste gas)	t CO2 / TJ				
Waste gas imported	TJ / year				
Specific EF (imported waste gas)	t CO2 / TJ				
Waste gas exported	TJ / year				
Specific EF (exported waste gas)	t CO2 / TJ				
Relevant electricity consumption	MWh / year				
Electricity produced	MWh / year				
Total amount of pulp produced	tonnes				
Intermediate import:					
• • • • • • • • • • • • • • • • • • •	tonnes				
	tonnes				
Intermediate export:					
	tonnes				
	tonnes				

6 Sub-installation with product benchmark 6:

ıb-installatio	n with product b	enchmark 6:							
			CL-exposed	ElExch?	Started	No. of BM	15(7).3?	BM value (min/	max/actual)
			N.A.		N.A.	N.A.		N.A.	EUA/tonnes
		non-ETS heat	WGflare	ElExch-F	HVC-Corr	VCM-F	15(7).3 HAL	N.A.	EUA/tonnes
Special fac	tors:			1,0000				N.A.	EUA/tonnes
			Unit	2014	2015	2016	2017	2018	
HAL (Histo	ric activity level) rep	orted	tonnes						Average
Values use	d for HAL calculatio	n:	tonnes						
	HAL total			Prelim Alloc Ye	ar 1 (min)	Prelim Alloc Ye	ar 1 (max)	Prelim Alloc Ye	ar 1 (actual)
		tonnes / year			EUA / year		EUA / year		EUA / year

	Unit	2014	2015	2016	2017	2018
Total attributed emissions	t CO2e/year					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Direct emissions	t CO2 / year					
Further source streams - 1	t CO2 / year				-	
Further source streams - 2	t CO2 / year					
GHG imported or exported	t CO2e/year					
Net heat imported	TJ / year					
Specific EF (imported heat)	t CO2 / TJ					
Net heat imported from pulp	TJ / year					
Net heat imported from nitric acid sub-	TJ / year					
Net heat exported	TJ / year					
Specific EF (exported heat)	t CO2 / TJ					
Waste gas produced	TJ / year					
Specific EF (produced waste gas)	t CO2 / TJ					
Waste gas consumed	TJ / year					
Specific EF (consumed waste gas)	t CO2 / TJ					
Waste gas flared	TJ / year					
Specific EF (flared waste gas)	t CO2 / TJ					
Waste gas imported	TJ / year					
Specific EF (imported waste gas)	t CO2 / TJ					
Waste gas exported	TJ / year					
Specific EF (exported waste gas)	t CO2 / TJ					
Relevant electricity consumption	MWh / year					
Electricity produced	MWh / year					
Total amount of pulp produced	tonnes					
Intermediate import:						
•	tonnes					
	tonnes					
Intermediate export:						
	tonnes					
	tonnes					

_			
7	Sub-installation	with product	bonchmark 7

o-installation with product b	enchmark 7:							
		CL-exposed	EIExch?	Started	No. of BM	15(7).3?	BM value (min/	max/actual)
		N.A.		N.A.	N.A.		N.Á.	EUA/tonnes
	non-ETS heat	WGflare	EIExch-F	HVC-Corr	VCM-F	15(7).3 HAL	N.A.	EUA/tonnes
Special factors:			1,0000				N.A.	EUA/tonnes
		Unit	2014	2015	2016	2017	2018	
HAL (Historic activity level) rep	orted	tonnes						Average
Values used for HAL calculatio	n:	tonnes						
HAL total			Prelim Alloc Ye	ar 1 (min)	Prelim Alloc Ye	ar 1 (max)	Prelim Alloc Ye	ar 1 (actual)
	tonnes / year			EUA / year		EUA / year		EUA / year
		Unit	2014	2015	2016	2017	2018	
Total attributed emissions		t CO2e/year						
Fuel input		TJ / year						
Weighted emission factor		t CO2 / TJ						

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Direct emissions	t CO2 / year			
Further source streams - 1	t CO2 / year			
Further source streams - 2	t CO2 / year			
GHG imported or exported	t CO2e/year			
Net heat imported	TJ / year			
Specific EF (imported heat)	t CO2 / TJ			
Net heat imported from pulp	TJ / year		1	
Net heat imported from nitric acid sub-	TJ / year	 -		
Net heat exported	TJ / year			
Specific EF (exported heat)	t CO2 / TJ			
Waste gas produced	TJ / year			
Specific EF (produced waste gas)	t CO2 / TJ			
Waste gas consumed	TJ / year			
Specific EF (consumed waste gas)	t CO2 / TJ			
Naste gas flared	TJ / year			
Specific EF (flared waste gas)	t CO2 / TJ			
Naste gas imported	TJ / year			
Specific EF (imported waste gas)	t CO2 / TJ			
Naste gas exported	TJ / year			
Specific EF (exported waste gas)	t CO2 / TJ			
Relevant electricity consumption	MWh / year			
Electricity produced	MWh / year			
otal amount of pulp produced	tonnes			
ntermediate import:				
	tonnes			
	tonnes			
ntermediate export:		 	 	•
	tonnes			
	tonnes			

8 Sub-installation with product benchmark 8:

o-installation with p	roduct benchmark 8:							
		CL-exposed	ElExch?	Started	No. of BM	15(7).3?	BM value (min/	max/actual)
		N.A.		N.A.	N.A.		N.A.	EUA/tonnes
	non-ETS heat	WGflare	ElExch-F	HVC-Corr	VCM-F	15(7).3 HAL	N.A.	EUA/tonnes
Special factors:			1,0000				N.A.	EUA/tonnes
		Unit	2014	2015	2016	2017	2018	
HAL (Historic activity	 level) reported 	tonnes						Average
Values used for HAL	calculation:	tonnes						
HAL	total		Prelim Alloc Ye	ar 1 (min)	Prelim Alloc Ye	ar 1 (max)	Prelim Alloc Ye	ar 1 (actual)
	tonnes / year			EUA / year		EUA / year		EUA / year

	Unit	2014	2015	2016	2017	2018
Total attributed emissions	t CO2e/year					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Direct emissions	t CO2 / year					
Further source streams - 1	t CO2 / year					
Further source streams - 2	t CO2 / year					
GHG imported or exported	t CO2e/year					
Net heat imported	TJ / year					
Specific EF (imported heat)	t CO2 / TJ					
Net heat imported from pulp	TJ / year					
Net heat imported from nitric acid sub-	TJ / year					
Net heat exported	TJ / year					
Specific EF (exported heat)	t CO2 / TJ					
Waste gas produced	TJ / year					
Specific EF (produced waste gas)	t CO2 / TJ					
Waste gas consumed	TJ / year					
Specific EF (consumed waste gas)	t CO2 / TJ					
Waste gas flared	TJ / year					
Specific EF (flared waste gas)	t CO2 / TJ					
Waste gas imported	TJ / year					
Specific EF (imported waste gas)	t CO2 / TJ					
Waste gas exported	TJ / year					
Specific EF (exported waste gas)	t CO2 / TJ					
Relevant electricity consumption	MWh / year					
Electricity produced	MWh / year					
Total amount of pulp produced	tonnes					
Intermediate import:						
	tonnes					
	tonnes					
Intermediate export:						
	tonnes					
	tonnes					

9	Sub-installation with product k	enchmark 9:							
			CL-exposed	EIExch?	Started	No. of BM	15(7).3?	BM value (min/	max/actual)
			N.A.		N.A.	N.A.		N.A.	EUA/tonnes
		non-ETS heat	WGflare	ElExch-F	HVC-Corr	VCM-F	15(7).3 HAL	N.A.	EUA/tonnes
	Special factors:			1,0000				N.A.	EUA/tonnes
			Unit	2014	2015	2016	2017	2018	
	HAL (Historic activity level) re	ported	tonnes						Average
	Values used for HAL calculation	on:	tonnes						
	HAL total			Prelim Alloc Ye	ar 1 (min)	Prelim Alloc Ye	ar 1 (max)	Prelim Alloc Ye	ar 1 (actual)
		tonnes / year			EUA / year		EUA / year		EUA / year

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	Unit	2014	2015	2016	2017	2018
Total attributed emissions	t CO2e/year					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Direct emissions	t CO2 / year					
Further source streams - 1	t CO2 / year					
Further source streams - 2	t CO2 / year					
GHG imported or exported	t CO2e/year					
Net heat imported	TJ / year					
Specific EF (imported heat)	t CO2 / TJ					
Net heat imported from pulp	TJ / year					
Net heat imported from nitric acid sub-	TJ / year					
Net heat exported	TJ / year					
Specific EF (exported heat)	t CO2 / TJ					
Waste gas produced	TJ / year					
Specific EF (produced waste gas)	t CO2 / TJ					
Waste gas consumed	TJ / year					
Specific EF (consumed waste gas)	t CO2 / TJ					
Waste gas flared	TJ / year					
Specific EF (flared waste gas)	t CO2 / TJ					
Waste gas imported	TJ / year					
Specific EF (imported waste gas)	t CO2 / TJ					
Waste gas exported	TJ / year					
Specific EF (exported waste gas)	t CO2 / TJ					
Relevant electricity consumption	MWh / year					
Electricity produced	MWh / year					
Total amount of pulp produced	tonnes					
Intermediate import:						
	tonnes					
	tonnes					
Intermediate export:						
	tonnes					
	tonnes					

10 Sub-installation with product benchmark 10:

		CL-exposed	EIExch?	Started	No. of BM	15(7).3?	BM value (min/	max/actual)
		N.A.		N.A.	N.A.		N.A.	EUA/tonnes
	non-ETS heat	WGflare	EIExch-F	HVC-Corr	VCM-F	15(7).3 HAL	N.A.	EUA/tonnes
Special factors:			1,0000				N.A.	EUA/tonnes
		Unit	2014	2015	2016	2017	2018	
HAL (Historic activity level) re	ported	tonnes						Average
Values used for HAL calculat	on:	tonnes						
HAL total			Prelim Alloc Ye	ar 1 (min)	Prelim Alloc Ye	ar 1 (max)	Prelim Alloc Ye	ar 1 (actual)
	tonnes / year			EUA / year		EUA / year		EUA / year

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	Unit	2014	2015	2016	2017	2018
Total attributed emissions	t CO2e/year					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Direct emissions	t CO2 / year					
Further source streams - 1	t CO2 / year					
Further source streams - 2	t CO2 / year					
GHG imported or exported	t CO2e/year					
Net heat imported	TJ / year					
Specific EF (imported heat)	t CO2 / TJ					
Net heat imported from pulp	TJ / year					
Net heat imported from nitric acid sub-	TJ / year					
Net heat exported	TJ / year					
Specific EF (exported heat)	t CO2 / TJ					
Waste gas produced	TJ / year					
Specific EF (produced waste gas)	t CO2 / TJ					
Waste gas consumed	TJ / year					
Specific EF (consumed waste gas)	t CO2 / TJ					
Waste gas flared	TJ / year					
Specific EF (flared waste gas)	t CO2 / TJ					
Waste gas imported	TJ / year					
Specific EF (imported waste gas)	t CO2 / TJ					
Waste gas exported	TJ / year					
Specific EF (exported waste gas)	t CO2 / TJ					
Relevant electricity consumption	MWh / year					
Electricity produced	MWh / year					
Total amount of pulp produced	tonnes					
Intermediate import:						
	tonnes					
	tonnes					
Intermediate export:						
	tonnes					
	tonnes					

11	Fall-Back	sub-installation	1:
----	-----------	------------------	----

II-Back sub-installation 1:	F	leat benchm	ark sub-instal	lation, CL		
	CL-exposed	Started	15(7).3?	15(7).3 HAL	No. of BM	BM value (min/max/actual)
Heat benchmark sub-installation, CL	PRAWDA				1	EUA/TJ
						EUA/TJ

							EUA/TJ
	Unit	2014	2015	2016	2017	2018	
HAL (Historic activity level) reported	TJ						Average
Values used for HAL calculation:	TJ						
HAL total	1	Prelim Alloc Ye	ar 1 (min)	Prelim Alloc Ye	ar 1 (max)	Prelim Alloc Ye	ar 1 (actual)
TJ / year	1		EUA / vear		EUA / vear		EUA / vear

	Unit	2014	2015	2016	2017	2018
Measurable heat produced	TJ / year					
Total attributed emissions	t CO2e/year					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Direct emissions	t CO2 / year					
Net heat imported (other)	TJ / year					
Specific EF (imported heat)	t CO2 / TJ					
Net heat imported (product BM)	TJ / year					
Specific EF (from product BM)	t CO2 / TJ					
Net heat imported (pulp)	TJ / year					
Specific EF (from pulp)	t CO2 / TJ					
Net heat imported (fuelBM)	TJ / year					
Specific EF (from fuelBM)	t CO2 / TJ					
Net heat imported (waste gas)	TJ / year					
Specific EF (from waste gas)	t CO2 / TJ					

12 Fall-Back sub-installation 2:		Heat benchm	ark sub-insta	llation, non-C	L		
	CL-exposed	Started	15(7).3?	15(7).3 HAL	No. of BM	BM value (min/	max/actual)
Heat benchmark sub-installation, non-CL	FAŁSZ				2		EUA/TJ
							EUA/TJ
							EUA/TJ
	Unit	2014	2015	2016	2017	2018	
HAL (Historic activity level) reported	Unit TJ	2014	2015	2016	2017	2018	Average
HAL (Historic activity level) reported Values used for HAL calculation:		2014	2015	2016	2017	2018	
	TJ	2014 Prelim Alloc Yea		2016 Prelim Alloc Ye		2018 Prelim Alloc Ye	Average

	Unit	2014	2015	2016	2017	2018
Measurable heat produced	TJ / year					
Total attributed emissions	t CO2e/year					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Direct emissions	t CO2 / year					
Net heat imported (other)	TJ / year					
Specific EF (imported heat)	t CO2 / TJ					
Net heat imported (product BM)	TJ / year					
Specific EF (from product BM)	t CO2 / TJ					
Net heat imported (pulp)	TJ / year					
Specific EF (from pulp)	t CO2 / TJ					
Net heat imported (fueIBM)	TJ / year					
Specific EF (from fuelBM)	t CO2 / TJ					
Net heat imported (waste gas)	TJ / year					
Specific EF (from waste gas)	t CO2 / TJ					

13 Fall-Back sub-installation 3:		District heating	ng sub-install	ation			
	CL-exposed	Started	15(7).3?	15(7).3 HAL	No. of BM	BM value (min/	max/actual)
District heating sub-installation	FAŁSZ				3		EUA/TJ
							EUA/TJ
							EUA/TJ
	Unit	2014	2015	2016	2017	2018	
HAL (Historic activity level) reported	Unit TJ	2014	2015	2016	2017	2018	Average
HAL (Historic activity level) reported Values used for HAL calculation:		2014	2015	2016	2017	2018	
	TJ TJ	2014 Prelim Alloc Yea		2016 Prelim Alloc Yea		2018 Prelim Alloc Ye	Average

	Unit	2014	2015	2016	2017	2018
Measurable heat produced	TJ / year					
Total attributed emissions	t CO2e/year					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Fuel input	TJ / year					
Weighted emission factor	t CO2 / TJ					
Direct emissions	t CO2 / year					
Net heat imported (other)	TJ / year					
Specific EF (imported heat)	t CO2 / TJ					
Net heat imported (product BM)	TJ / year					
Specific EF (from product BM)	t CO2 / TJ					
Net heat imported (pulp)	TJ / year					
Specific EF (from pulp)	t CO2 / TJ					

Net heat imported (fuelBM)	TJ / year			
Specific EF (from fuelBM)	t CO2 / TJ			
Net heat imported (waste gas)	TJ / year			
Specific EF (from waste gas)	t CO2 / TJ			

I-Back sub-installation 4:		Fuel benchma	ark sub-instal	llation, CL			
	CL-exposed	Started	15(7).3?	15(7).3 HAL	No. of BM	BM value (min/r	max/actual)
Fuel benchmark sub-installation, CL	PRAWDA				4		EUA/TJ
	-						EUA/TJ
							EUA/TJ
	Unit	2014	2015	2016	2017	2018	
HAL (Historic activity level) reported	TJ						Avera
Values used for HAL calculation:	TJ						
HAL total		Prelim Alloc Yea	ar 1 (min)	Prelim Alloc Ye	ar 1 (max)	Prelim Alloc Ye	ar 1 (actual)
TJ / year			EUA / year		EUA / year		EUA / year
	Unit	2014					
		2014	2015	2016	2017	2018	
Total attributed emissions	t CO2e/year	2014	2015	2016	2017	2018	
Total attributed emissions Fuel input		2014	2015	2016	2017	2018	
	t CO2e/year		2015	2016	2017	2018	
Fuel input Weighted emission factor Fuel input	t CO2e/year TJ / year		2015	2016	2017	2018	
Fuel input Weighted emission factor	t CO2e/year TJ / year t CO2 / TJ		2015	2016	2017	2018	
Fuel input Weighted emission factor Fuel input	t CO2e/year TJ / year t CO2 / TJ TJ / year			2016	2017	2018	

15 Fall-Back sub-installation 5:		Fuel benchm	ark sub-instal	lation, non-Cl	L		
	CL-exposed	Started	15(7).3?	15(7).3 HAL	No. of BM	BM value (min/r	max/actual)
Fuel benchmark sub-installation, non-CL	FAŁSZ				5		EUA/TJ
							EUA/TJ
							EUA/TJ
	Unit	2014	2015	2016	2017	2018	
HAL (Historic activity level) reported	TJ						Average
HAL (Historic activity level) reported Values used for HAL calculation:	TJ TJ						
	TJ	Prelim Alloc Ye	ar 1 (min)	Prelim Alloc Yes	ar 1 (max)	Prelim Alloc Yes	Average

Unit	2014	2015	2016	2017	2018
t CO2e/year					
TJ / year					
t CO2 / TJ					
TJ / year					
t CO2 / TJ					
t CO2 / year					
TJ / year					
	t CO2e/year TJ / year t CO2 / TJ TJ / year t CO2 / TJ t CO2 / year	t CO2e/year	t CO2e/year	t CO2e/year	t CO2e/year Image: Color of the second

CL-exposed	Started					
	Starteu	15(7).3?	15(7).3 HAL	No. of BM	BM value (min/r	max/actual)
PRAWDA				6		EUA/t CO2e
						EUA/t CO2e
						EUA/t CO2e
Unit	2014	2015	2016	2017	2018	
t CO2e						Average
t CO2e						
	Prelim Alloc Ye	ar 1 (min)	Prelim Alloc Ye	ar 1 (max)	Prelim Alloc Ye	ar 1 (actual)
		EUA / year		EUA / year		EUA / year
	-					
Unit	2014	2015	2016	2017	2018	
t CO2e/year						
	t CO2e t CO2e	t CO2e t CO2e Prelim Alloc Ye Unit 2014	t CO2e t CO2e Prelim Alloc Year 1 (min) EUA / year Unit 2014 2015	t CO2e t CO2e Prelim Alloc Year 1 (min) EUA / year Unit 2014 2015 2016	t CO2e t CO2e Prelim Alloc Year 1 (min) Prelim Alloc Year 1 (max) EUA / year Unit 2014 2015 2016 2017	Unit 2014 2015 2016 2017 2018 t CO2e Image: Color of the state of

I-Back sub-installation 7:		Process emis	seione sub-in	stallation nor	-CI		
-Dack Sub-Installation 1.		TTOCESS Enns	5510115 500-111	stanation, nor			
	CL-exposed	Started	15(7).3?	15(7).3 HAL	No. of BM	BM value (min/	max/actual)
Process emissions sub-installation, non-CL	FAŁSZ				7		EUA/t CO2e
							EUA/t CO2e
							EUA/t CO2e
	Unit	2014	2015	2016	2017	2018	
HAL (Historic activity level) reported	t CO2e						Average
Values used for HAL calculation:	t CO2e						
HAL total	1	Prelim Alloc Ye	ar 1 (min)	Prelim Alloc Ye	ar 1 (max)	Prelim Alloc Ye	ar 1 (actual)
t CO2e / year			EUA / year		EUA / year		EUA / year
	-						
	Unit	2014	2015	2016	2017	2018	
Total attributed emissions	t CO2e/year						

V Calculation of preliminary annual amount of allowances allocated free of charge

In this section you can see a summary of preliminary allocation values for the years 2021 to 2025, or 2026 to 2030, respectively, which apply to this installation, and which are based on the data shown in the previous sections based on your entries. The displayed information does not contain any completeness checks. Therefore, the data can only be considered correct if you have ensured that the following conditions are met:

- Sheet "A InstallationData" is filled completely, especially sections A, II (eligibility and baseline period) and A, III (list of subinstallations)
- Data has been entered for all relevant baseline years and the relevant sections in sheets F and G are filled. - No error messages are displayed in any of the relevant sections of those sheets.
- For understanding the preliminary character of this information, it is important to understand what has been taken into account in the calculation:
 - Depending on your input in section A.II.2 (chosen baseline period), A.III (sub-installation data) and sheets F and G, you see in section IV of this sheet, which baseline years have been used for calculating historical activity levels ("HALs"), to which benchmarks are applied.
 - As at the time of submitting the data to the competent authority the updated benchmark values are not yet available, you can get an indication of the order of magnitude of the expected allocation by selecting either the "minimum" or "maximum" benchmark values in point 1.a below.
 - The calculation takes into account for each sub-installation, if it is exposed to a significant risk of carbon leakage, or if this is not the case.
 - The calculation takes into account, if the installation is covered by Article 10a(3) of the EU ETS Directive, i.e. if it is an electricity generator or an installation for the capture, transport or geological storage of CO2. Pursuant to Article 16(8) of the FAR, the allocation of such installations has to be corrected by applying the linear factor referred to in Article 10a(4) of the EU ETS Directive. This linear factor is taken into account here.
 - The oreliminary allocation of all other installations (those not covered by Article 10a(3) of the EU ETS Directive) has to be multiplied by the cross-sectoral correction factor as Independent of the manufacture instantiation in the matching of the FAR. This factor will be calculated by the European Commission as soon as all Member States have notified their National Implementation Measures (NIMs) and the new benchmark values are published.
 - In order to help operators understanding how the allocation is calculated, the PRELIMINARY allocation (i.e. allocation before application of the cross-sectoral correction factor or linear factor) is displayed below. For submission to the competent authority, no cross sectoral-correction factor is to be entered.
 - However, this template offers the possibility to enter a value for the cross-sectoral correction factor. This feature can be used by the operator for his own information only. The results are by no means legally binding.

Disclaimer: According to Article 16(1) of the FAR. Member States are required to calculate and set the number of emission allowances allocated free of charge from 2021 onwards to each installation applying for free allocation. The results displayed here are therefore indicative only. No warranty, either expressed or implied, is provided in relation to the accuracy, completeness or reliability of the result. No rights or entitlement to a certain amount of llowances can be derived from the result displayed in this template. For correctness of calculations please see also the disclaimer in the sheet "Guidelines and conditions".

1 Total preliminary annual amount of allowances allocated free of charge:

The amount displayed here reflect the calculation of preliminary annual number of allowances allocated free of charge in accordance with paragraphs 1 to 7 of Article 16 of the FAR, i.e. the factors referred to in Annex V of the FAR (referred to as "Carbon leakage factor" below) have already been applied. Pursuant to Article 16(3) of the FAR, for the district heating sub-installation this factor will be 0.3 for all years.

If for a sub-installation the calculated preliminary annual amount of allowances allocated free of charge results in a negative value, it is set to zero instead.	

(a) Calculation of the minimum, maximum, or actual preliminary allocation? Minimum Based on the selection made here, the indicative minimum, maximum or actual preliminary allocation, as determined in section IV above, will be shown. Please note that the actual allocation can only be calculated once the new benchmark values are published. Before that, no calculations will be performed below, if "actual" is chosen. If this field is left empty, the minimum preliminary allocation will be used as the default for all calculations below.

(b) Calculation factors:

	2021	2022	2023	2024	2025
Carbon leakage factor fon non-CL sectors	0,3000	0,3000	0,3000	0,3000	0,3000
Carbon leakage factor for district heating	0,3000	0,3000	0,3000	0,3000	0,3000
Note: for CL exposed sectors, the CL factor is 1.0000 for all years.					

(c) Calculation in accordance with Article 16(1) to (7) of the FAR:

	(c) Calculation in accordance with Article 16(1) to (7) of the FAR:							
	Sub-installation	2021	2022	2023	2024	2025		
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11	Heat benchmark sub-installation, CL							
12	Heat benchmark sub-installation, non-CL							
13	District heating sub-installation							
14	Fuel benchmark sub-installation, CL							
15	Fuel benchmark sub-installation, non-CL							
16	Process emissions sub-installation, CL							
17	Process emissions sub-installation, non-CL							
	Total preliminary free allocation							

2 Indicative expected final amount of free allowances:

	2021	2022	2023	2024	2025
_inear factor	0,8562	0,8342	0,8122	0,7902	0,7682
Cross-sectoral correction factor (CSCF) in acc For the purpose of your own information, as explained above, default value is 1, until the Commission has published the final	you can enter values for the cross-sector	al uniform correction	factor in accordance	e with Article 10a(5) e	of the ETS Direc
When submitting this report to the competent authority for	r the purpose of establishing the nation	al implementation i	measures, make su	ire that no data is e	ntered here.
					-
	2021	2022	2023	2024	2025
CSCF	2021	2022	2023	2024	2025
Value used for calculation	2021 1,0000	2022 1,0000	2023	2024 1,0000	2025
	linear factor displayed in point (a) has to	1,0000 be applied for each y	1,0000	1,0000	1,0000

	Sub-installation	2021	2022	2023	2024	2025
1						
2						

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The results displayed here are by no means legally binding. Please see disclaimer in the introduction of this section.