MONITORING METHODOLOGY PLAN for Phase 4 of the EU ETS

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Language version:	English
Reference filename:	MMP P4 3rd draft_COM_en_250119.xls

Information about this file:		
Installation name:		
Unique Installation Identifier:		
Reference date:	25.01.2019	

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

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
- 2 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 for which operators have to prepare a monitoring methodology plan (MMP) pursuant to Article 8 of the FAR.
- 4 This is a template for the MMP and 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.
- 5 This is the final draft of 25 January 2019 for discussion within the relevant expert group (CCEG). IT IS 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).

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.

7 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	are often very shor	t due to the intile 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.		
	Manual input! Means that data has to be entered manually in a case where automatic calculation of a parameter is not possible.			
	Input in A.III.3 !	These are references to document sections. This means that data in the referenced sections are missing.		
	E.II.1.n !			

8 Colour codes and fonts:

Colour codes and tonis.	
Black bold text:	This is text describing the input required.
Smaller 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.

- 9 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).
- 10 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.
- 11 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.
- If you want to move data, first COPY and PASTE them, and thereafter delete the unwanted data in the old (wrong) place.
- 12 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.

13 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 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:





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:

Α. Monitoring Methodology Plan versions

I List of monitoring methodology plan versions

This sheet is used for tracking the actual version of the monitoring methodology plan. Each version of the monitoring plan should have a unique version number, and a reference date. Depending on the requirements of the Member State, it is possible that the document is exchanged between competent authority and operator with various updates, or that the operator alone keeps track of the versions. In any case, the operator should keep in his files a copy of each version of the monitoring methodology plan. The status of the monitoring methodology plan at the reference date should be described in the "status" column. Possible status types include "submitted to verifier", "assessed by verifier", "submitted to the competent authority (CA)", "returned with remarks", "approved by the CA", "working draft" etc.

In the "date of application" column, the date as of which the monitoring methodology as described in the plan applies, if applicable

At several occasions this document makes reference to external files. Please note that any information contained in such still forms an integral part of the monitoring methodology plan.

Version no.	Reference	Status at reference date		Chapters where modifications have been made. Brief explanation of changes
	date			
1	25.01.2019		25.01.2019	

B. INSTALLATION DATA

	tification of the Install		
1 Cons	sent to use the data conta	ained in this file	
the E the E pursu	EU ETS Directive, and by th European Commission in pa uant to Article 11(1) of the	e European Commission for upo art or as a whole, if requested so	etent authority for determining the free allocation pursuant to Article 10a of fating benchmark values. Furthermore this information might be notified to b, for the purpose of scrutinizing the national implementation measures phitoring methodology plan.
Ahau	ut the energies		
	ut the operator Operator Name		
(a) (b)	Member State		
(b) (c)	Emissions trading permi	t number	member state/CA prefix
(d)	Competent Authority		
3 Abou	ut your installation		
(a)		and the site on which it is locate	ed:
	i. Installation name:		
	i. Site name:		
	 Registry ID of the installation This is usually a natural number, 	i.e. a code different from the Permit identifi	er used in the Registry (EUTL).
		BE00000000123456, please enter here 1	123456. Together with the Member State selected under (c), this Registry ID
IV.	. Unique ID:		
	Include any Member State specif	ic guidance on naming of installations.	
(b)	Address / location of the	site of the installation:	
	i. Address Line 1:		
	i. Address Line 2: i. City:		
iv.	 State/Province/Region: 		
	 Postcode/ZIP: Country: 		
vi.	,	ic guidance regarding grid references.	
		o galaanoo rogarang gna rololonooo.	
+ Conta	act details	a second state and states	
			y pian ? ons about your monitoring methodology plan. The persons you name should have
	the authority to act on behalf of the	ne operator.	
(a)		Title:	
(a)	the authority to act on behalf of the	Title: First Name:	
(a)	the authority to act on behalf of the	Title:	
(a)	the authority to act on behalf of the	Title: First Name: Surname:	rent from the operator):
(a)	the authority to act on behalf of the	Title: First Name: Surname: Job title:	rent from the operator):
(a)	the authority to act on behalf of the	Title: First Name: Surname: Job title: Organisation name (if diffe	irent from the operator):
	the authority to act on behalf of the	Title: First Name: Surname: Job title: Organisation name (if diffe Telephone number:	irent from the operator):
(a) (b)	the authority to act on behalf of t	Title: First Name: Surname: Job title: Organisation name (if diffe Telephone number: Email address: Title: First Name:	From the operator):
	the authority to act on behalf of t	Title: First Name: Surname: Job title: Organisation name (if diffe Telephone number: Email address: Title: First Name: Surname:	irent from the operator):
	the authority to act on behalf of t	Title: First Name: Surname: Job title: Organisation name (if diffe Telephone number: Email address: Title: First Name:	
	the authority to act on behalf of t	Title: First Name: Surname: Job title: Organisation name (if diffe Telephone number: Email address: Title: First Name: Surname: Job title:	

C. INSTALLATION DESCRIPTION

List of sub-installations

1 Product benchmark sub-installations

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.

Please note that the correct entries here are essential for all subsequent inputs dealing with sub-installations. No.IProduct type

140.	Froduct type	or 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

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,

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

No.	Sub-installation type	relevant?	CL exposed?
11	Heat benchmark sub-installation, CL		PRAWDA
12	Heat benchmark sub-installation, non-CL		FAŁSZ
13	District Heating sub-installation, non-CL		FAŁSZ
14	Fuel benchmark sub-installation, CL		PRAWDA
15	Fuel benchmark sub-installation, non-CL		FAŁSZ
16	Process emissions sub-installation, CL		PRAWDA
17	Process emissions sub-installation, non-CL		FAŁSZ

II Description of the installation

(b) (c)

Description of the installation including its main processes If the description pursuant to section 1(c) of Annex VI of the FAR exceeds the sp (a)

ace provided here, please refer to an attached document file (and then please list exact file name here).

. .

eference to th	e latest approved monitoring pl	an:	
			Il emission sources are listed as required by section 1(c) of Annex VI of the FAR).
	flow diagram:		
	v diagram in accordance with section 1(d) monitoring methodology plan to your com		ains at least the following information and provide a reference (filename, date) and attach a copy
	The technical elements of the installation,		
- /	All energy and material flows, in particular	the source streams, emission source	es, measurable and non-measurable heat flows, electricity flows where relevant, and waste gas
	The points of measurement and metering	devices	
	Boundaries of the sub-installations, includi serving other sectors, based on NACE rev		serving sectors deemed to be exposed to a significant risk of carbon leakage and sub-installatio
more complex cas	es, more detailed flow diagrams should b	e shown for each relevant sub-instal	llation under point (a).iii. of sheets F and G.
ease also include a	a (smaller) picture of that flow diagram in t	he box below.	

III Connections to other EU ETS installations or non-ETS entities

- (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 CO2 for the purpose of CCS activities cross the boundaries of the installation. "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. Type of connection options are.
 - Measurable heat
 - Waste gas
 - transferred CO2 for geological storage (CCS)
 - transferred CO2 for use in installation (CCU)
 - 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)

 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)

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. No Installation ID used in CITL Name of contact person I (email) address Inhone number

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

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

D. Methods and procedures at installation level

I Methods at installation level

Entries in this section are only relevant if the installation has more than one sub-installation AND any physical units are used by more than one sub-installation. If this is not the case, please proceed with section II below.

(a) Physical parts of installations which serve more than one sub-installation

As required by Annex VI, section 2(b), of the FAR please list all physical parts of installations and units which serve more than one sub-installation, including heat supply systems, jointly used boilers and CHP units, etc.

For each part or unit, please select all relevant sub-installations from the drop down lists which contains all sub-installations selected in section C.I. Units which only serve one sub-installation should not be listed here but described in detail in the section (a) of the relevant sub-installation in sheets F and G.

For example, if a boiler produces measurable heat that is consumed by two product benchmark sub-installation, the boiler should be listed below and both sub-installations selected from the dropdown list. If the heat is consumed by only one of the two sub-installation, no entries are required here, but in sheet F.I.(a).

Ref.	Physcial part of the installation or unit	Relevant sub-installations				
		1	2	3	4	5
P1						
P2						
P3						
P4						
P5						
P6						
P7						
P8						
P9						
P10						
P11						
P12						
P13						
P14						
P15						

(b) Methods to assign parts of installations and their emissions to the respective sub installations:

As required by Annex VI, section 2(d) of the FAR, please describe for each sub-installation identified under (a) above the methods to assign parts of installations and their emissions to the This description should in particular take into account the provisions in section 3.2.1 of Annex VII of the FAR.

If relevant methods are described in sufficient detail under point (a) of sheets F and G of all relevant sub-installations, please just state so here If this information is provided in external files, please provide a reference to those below.

Reference to external files, if relevant

(c) Method used for ensuring that data gaps and double counting are avoided

Please describe how it is ensured that no data gaps or double counting occurred pursuant to section 3(b) of Annex VI of the FAR and taking into consideration the provisions in Article 10(5) of the FAR.

If there is more than one sub-installation relevant for your installation, and emissions of one source stream are determined individually for each sub-installation in sheets F or G, please compare the emissions of the annual emission report with the sum of emissions for each sub-installation. If deviations occur please describe according to section 3.2.2 of Annex VII of the FAR the method to correct the data.

Reference to external files, if relevant

II Procedures

This section covers the procedures required by sections 1.(f) to (h) of Annex VI of the FAR.

Where relevant and to the extent possible, please refer to the corresponding procedures in the MRR monitoring plan and integrate them there.

(a) Please give a reference to the procedure for managing the assignment of responsibilities for monitoring and reporting within the installation, and for managing the competences of responsible personnel

It is possible to refer to an attached doo	cument file (then please list exact file name here), if the description exceeds the space provided here.
Title of procedure	
Reference for procedure	
Diagram reference (where applicable)	
Brief description of procedure	
Post or department responsible	
Location where records are kept	
Name of IT system used (where applicable).	
List of EN or other standards applied (where relevant)	

(b) Please give a reference to the procedure for regular evaluation of the monitoring methodology plan's appropriateness in accordance with Article 9(1)

This procedure shall in particular ensur	e that monitoring methods are in place for all data items listed in Annex IV which are relevant at the installation, and that most accurate available data
It is possible to refer to an attached doo	rument file (then please list exact file name here), if the description exceeds the space provided here.
Title of procedure	
Reference for procedure	
Diagram reference (where applicable)	
Brief description of procedure	
Post or department responsible	
Location where records are kept	

Name of IT system used (where	
applicable).	
List of EN or other standards applied	
(where relevant)	

(c) Please give a reference to the written procedure of the data flow activities pursuant to Art. 11(2), including diagrams where appropriate for clarification

It is possible to refer to an attached document file (then please list exact file name here), if the description exceeds the space provided here.

Title of procedure	
Reference for procedure	
Diagram reference (where applicable)	
Brief description of procedure	
Post or department responsible	
Location where records are kept	
Name of IT system used (where applicable).	
List of EN or other standards applied (where relevant)	

(d) Please give a reference to the written procedures of the control activities pursuant to Art. 11(2), including diagrams where appropriate for clarification

It is	possible to refer to an attached document file	(then	nlease list exact file	name here) i	if the description	in exceeds the snace or	ovided here

Little of procedure	
Reference for procedure	
Diagram reference (where applicable)	
Brief description of procedure	
Post or department responsible	
Location where records are kept	
Name of IT system used (where applicable).	
List of EN or other standards applied (where relevant)	

E. Energy Flows

	on to this sh				
All des	scriptions of the m	ethods used in subsequent sections below to quantify pa	rameters to be monitored and report	ed shall include, where relevant:	
	- calculation steps				
	 data sources calculation formula 	9e			
		n factors including unit of measurement			
		tical checks for corroborating data pinning sampling plans			
	1 State 1 Stat	ipment used with reference to the relevant diagram and a de	scription how they are installed and main	ntained	
	- a list of laboratorie	es engaged in carrying out relevant analytical procedures			
		lude the result of a simplified uncertainty assessment in		equired.	
For ea	ich relevant calcula	tion formula the plan shall contain one example using re	al data.		
Fuel	l input				
(a)	Fuel input flo	WS ourpose of the NIMs data collection, this section should co	war all data provided in castion E Lin	the "beesline date collection" tomplet	
i		the methodology applied	ver an data provided in section E.i m	the basenne data conection templat	с.
	Please select belo	DW:			
		 the data source used for the quantities pursuant to section the method used for the determination of the energy content 		f the FAR.	
		As more than one of the data sources might be involved, the	e template provides for up to three sour		, please select the three main sources
		and describe further details in the description of the method	lology below.	Other data source (if	Other data source (if
			Data source	applicable)	applicable)
		. Fuel input			
		. Energy content			
	3	. Description of the methodology applied			
		The list of aspects this description should cover	can be found at the top of this sl	heet!	
	4	. Reference to external files, if relevant			
ii		al order has been followed?	If not, why?		
	Selecting "TRUE"	here means that the data source with the highest rank within			If this is not the case, please select
		 ct the reason for that from the drop-down list and describe full Uncertainty assessment: other data sources lead to lower list 		-	7(2) of the EAR
		 Technical infeasibility: the use of better data sources is tech 			
		- Unreasonable costs: the use of better data sources would	incur unreasonable costs.		
		Further details on any deviation from the hierard	chy		
(a)		at installation level eat flows (import, export, consumption and pr	oduction)		
()		purpose of the NIMs data collection, this section should co		the "baseline data collection" templa	te.
i	i. Are measurab	le heat flows relevant for the installation?			
11	Information on	the method land and land			
		the methodology applied ow for all measurable heat flows:			
	Please select belo	ow for all measurable heat flows: - the data source used for the energy flows pursuant to sect			
	Please select belo	ow for all measurable heat flows:	e template provides for up to three sour	ces. If even further sources are involved	, please select the three main source
	Please select belo	w for all measurable heat flows: - the data source used for the energy flows pursuant to sect As more than one of the data sources might be involved, th and describe further details in the description of the methoo For example, if heat is imported and consumed within the in	te template provides for up to three sour lology below. Installation, the imported flows might be n	neasured by instruments subject to nation	.,
	Please select belo	w for all measurable heat flows: - the data source used for the energy flows pursuant to sect As more than one of the data sources might be involved, it and describe further details in the description of the methoo For example, if heat is imported and consumed within the ir 4.5(a)), while the consumed amounts might be measured b	le template provides for up to three sour lology below. Istallation, the imported flows might be n ly other meters under the operator's con	neasured by instruments subject to nation trol (section 4.5(b)).	.,
	Please select belo	w for all measurable heat flows: - the data source used for the energy flows pursuant to sect As more than one of the data sources might be involved, th and describe further details in the description of the methoo For example, if heat is imported and consumed within the in	te template provides for up to three sour fology below. stallation, the imported flows might be n y other meters under the operator's con uant to section 7.2 of Annex VII of the F	neasured by instruments subject to nation trol (section 4.5(b)).	nal legal metrological control (section
	Please select belo	w for all measurable heat flows: - the data source used for the energy flows pursuant to sect. As more than one of the data sources might be involved, th and describe further details in the description of the methoc For example, if heat is imported and consumed within the ir 4.5(a), while the consumed announts might be measured to - the method used for the determination of net amounts purs	le template provides for up to three sour lology below. Istallation, the imported flows might be n ly other meters under the operator's con	neasured by instruments subject to nation trol (section 4.5(b)). AR.	.,
	Please select bek	w for all measurable heat flows: - the data source used for the energy flows pursuant to sect. As more than one of the data sources might be involved, th and describe further details in the description of the methoc For example, if heat is imported and consumed within the ir 4.5(a), while the consumed amounts might be measured be - the method used for the determination of net amounts purs Quantification of measurable heat flows	te template provides for up to three sour fology below. stallation, the imported flows might be n y other meters under the operator's con uant to section 7.2 of Annex VII of the F	neasured by instruments subject to nation trrol (section 4.5(b)). AR. Other data source (if	nal legal metrological control (section Other data source (if
	Please select bek	 w/ for all measurable heat flows: the data source used for the energy flows pursuant to sect. As more than one of the data sources might be involved, the and describe further details in the description of the method. For example, if heat is imported and consumed within the in 4.5(a), while the consumed amounts might be measured be - the method used for the determination of net amounts purs Quantification of measurable heat flows Net measurable heat flows 	te template provides for up to three sour fology below. stallation, the imported flows might be n y other meters under the operator's con uant to section 7.2 of Annex VII of the F	neasured by instruments subject to nation trrol (section 4.5(b)). AR. Other data source (if	nal legal metrological control (section Other data source (if
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Was (a)	Please select bek 1 2 3 4 i. <u>The hierarchick</u> 5 5 5 5 1 1 1 2 3 3 4 i. <u>The hierarchick</u> 5 5 1 5 1 1 1 2 3 3 4 i. <u>The hierarchick</u> 5 5 1 1 1 1 2 3 3 4 i. <u>The hierarchick</u> 5 1 1 1 1 1 1 1 1 1 1 1 1 1	w for all measurable heat flows: - the data source used for the energy flows pursuant to sect. As more than one of the data sources might be involved, th and describe further details in the description of the method. For example, if heat is imported and consumed within the ir ad.(s(a)), while the consumed amounts might be measured be the method used for the determination of net amounts purs . Quantification of measurable heat flows . Net measurable heat flows . Net measurable heat flows . Description of the methodology applied	e template provides for up to three sour fology below. stallation, the imported flows might be n y other meters under the operator's con uant to section 7.2 of Annex VII of the F Data source If not, why? the hierarchy set out in section 4 of Ann three retails below. Reasons for deviation three sources of the the sources of the sourceso	neasured by instruments subject to nation tirol (section 4.5(b)). FAR. Other data source (if applicable) ex VII of the FAR has been used above. I can be the following: near bit of following: near the "baseline data collection" templa cess. If even further sources are involved a FAR. Other data source (if	In al legal metrological control (section Other data source (if applicable) If this is not the case, please select If this is not the case, please select If this is not the case, please select If this is not the fare. If the fare of

		4. Reference to external file, if relevant			
	ij. The hiera	archical order has been followed?	If not, why?		
		TRUE" here means that the data source with the highest rank			. If this is not the case, please select
	"FALSE" ar	nd select the reason for that from the drop-down list and deso - Uncertainty assessment: other data sources lead to		•	7/2) of the EAP
		 Technical infeasibility: the use of better data sources 		noonanty assessment parsaant to Anton	(12) of the FAR
		- Unreasonable costs: the use of better data sources	would incur unreasonable costs.		
		Further details on any deviation from the h	ierarchy		
IV	Electricity at	installation level			
		ty flows (import, export, consumption and pro			
		ecific purpose of the NIMs data collection, this section she	ould cover all data provided in section E.IV	in the "baseline data collection" temple	ate.
	I. IS electric	city produced within the installation?			
	ii Informatio	on on the methodology applied			
	Please sele	ect below the data source used for the energy flows pursuant			
	As more th	an one of the data sources might be involved, the template pr			
		e description of the methodology below.	ovides for up to three sources. If even further	sources are involved, please select the li	hree main sources and describe further
				Other data source (if	Other data source (if
		e description of the methodology below.	Data source	_	
		e description of the methodology below.		Other data source (if	Other data source (if
		e description of the methodology below. 1. Quantification of energy flows 2. Description of the methodology applied	Data source	Other data source (if applicable)	Other data source (if
		e description of the methodology below.	Data source	Other data source (if applicable)	Other data source (if
		e description of the methodology below. 1. Quantification of energy flows 2. Description of the methodology applied	Data source	Other data source (if applicable)	Other data source (if
		e description of the methodology below. 1. Quantification of energy flows 2. Description of the methodology applied	Data source	Other data source (if applicable)	Other data source (if
		e description of the methodology below. 1. Quantification of energy flows 2. Description of the methodology applied	Data source	Other data source (if applicable)	Other data source (if
		e description of the methodology below. 1. Quantification of energy flows 2. Description of the methodology applied The description should cover the determination of all	Data source	Other data source (if applicable)	Other data source (if
		e description of the methodology below. 1. Quantification of energy flows 2. Description of the methodology applied	data related to electricity flows listed in sectio	Other data source (if applicable)	Other data source (if
	details in th	e description of the methodology below. 1. Quantification of energy flows 2. Description of the methodology applied The description should cover the determination of all	data related to electricity flows listed in sectio	Other data source (if applicable) n 2.5 of Annex IV of the FAR.	Other data source (if applicable)
	details in th ii. <u>The hiera</u> Selecting *	e description of the methodology below. 1. Quantification of energy flows 2. Description of the methodology applied The description should cover the determination of all	Data source	Other data source (if applicable) n 2.5 of Annex IV of the FAR.	Other data source (if applicable)
	details in th ii. <u>The hiera</u> Selecting *	e description of the methodology below. 1. Quantification of energy flows 2. Description of the methodology applied The description should cover the determination of all	Data source	Other data source (if applicable) n 2.5 of Annex IV of the FAR.	Other data source (if applicable)
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F. Sheet "ProductBM" - SUB-INSTALLATION DATA RELATING TO PRODUCT BENCHMARKS The navigation bar above only contains links to sub-installations listed in section C.I.

		nethods used in subsequent sections below to quantify p	parameters to be monitored and report	ted shall include, where relevant:	
	 calculation steps data sources 				
	calculation form	llae			
		ion factors including unit of measurement			
		ertical checks for corroborating data erpinning sampling plans			
-	measurement e	quipment used with reference to the relevant diagram and a d	escription how they are installed and mai	intained	
		ries engaged in carrying out relevant analytical procedures			
		clude the result of a simplified uncertainty assessment in lation formula the plan shall contain one example using r		required.	
		-installations			
Sub-II		<pre>ith product benchmark: product benchmark sub-installation is displayed automatically</pre>	based in the inputs in sheet "C_Installat	ionDescription".	
(a)	Sytem boun	daries of the sub-installation			
i.		n the methodology applied	a forth to a sub-transfer the state of a sub-state of a Harrison of the state of a Harrison of the state of the	·	
	As required by A	 Annex VI, section 2(b), please describe the sytem boundaries which technical units are included, 	or this sub-installation covering the follow	ing aspects:	
		- which processes are carried out,			
		 which input materials and fuels, and which products and outputs are attributed. 			
	Please also des	cribe the import or export of any intermediate products covere	d by product benchmarks (Sections 1.6 a	and 3.1(I) of Annex IV of the FAR), and r	espective amounts are quantifie
	If this informat	on is already provided in sufficient detail in section C.II, p	lassa just include reference here to thi	is section and proceed with the next p	oints below
				section and proceed with the next p	
ii.	Reference to	external files, if relevant			
		a separate detailed flow diagram, if relevant			
		e complex sub-installation, please provide a detailed flow diag	ram, if not included under i. above.		
(b)	Method for t	he determination of annual production (=activi	ity) levels		
i.		n the methodology applied			
	For the specific Please select be	e purpose of the NIMs data collection, this section should o	cover all data provided in section F.(a)	in the "baseline data collection" temp	late.
	7 10030 301001 00	 the data source used for the quantities pursuant to section 	n 4.4 of Annex VII of the FAR.		
		As more than one of the data sources might be involved, a and describe further details in the description of the methor		rces. If even further sources are involved	d, please select the three main s
		 the method used for the determination of annual quantities 		e FAR.	
		· · · · · · · · · · · · · · · · · · ·	Data source	Other data source (if	Other data source
		1. Quantities of products		applicable)	applicable)
		2. Annual quantities of products			
		2. Annual quantities of products			
		3 Special reporting requirements:			
		3. Special reporting requirements: Some product benchmarks require special information to b	be reported (e.g. CWT values). If relevan	t, an automatically generated message v	vill appear here.
			be reported (e.g. CWT values). If relevan	it, an automatically generated message v	vill appear here.
		Some product benchmarks require special information to to 4. Description of the methodology applied			vill appear here.
		Some product benchmarks require special information to l	set out in Annex I of the FAR and the rele	evant section in Guidance Document 9.	
		Some product benchmarks require special information to I 4. Description of the methodology applied Please consider the definition and system boundaries as s	set out in Annex I of the FAR and the rele	evant section in Guidance Document 9.	
		Some product benchmarks require special information to I 4. Description of the methodology applied Please consider the definition and system boundaries as s	set out in Annex I of the FAR and the rele	evant section in Guidance Document 9.	
		Some product benchmarks require special information to I 4. Description of the methodology applied Please consider the definition and system boundaries as s	set out in Annex I of the FAR and the rele	evant section in Guidance Document 9.	
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ii.		Some product benchmarks require special information to I 4. Description of the methodology applied Please consider the definition and system boundaries as s If the installation did not operate in all years, please provid Reference to external files, if relevant cal order has been followed?	set out in Annex I of the FAR and the rele le evidence, as appropriate, and describe	evant section in Guidance Document 9. how the start of normal operation was c	determined, if relevant.
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ii.	Selecting "TRUE	Some product benchmarks require special information to I 4. Description of the methodology applied Please consider the definition and system boundaries as s If the installation did not operate in all years, please provid Reference to external files, if relevant cal order has been followed? There means that the data source with the highest rank withil feet the reason for that from the drop-down list and describe f - Uncertainty assessment: other data sources lead to lower - Technical infeasibility: the use of better data sources is tec	et out in Annex I of the FAR and the rele le evidence, as appropriate, and describe in the hierarchy set out in section 4 of An urther details below. Reasons for deviati uncertainty according to the simplified u hincial infeasible.	evant section in Guidance Document 9. how the start of normal operation was a how the start of normal operation was a provide the start of normal operation of the start normal start of the FAR has been used above on can be the following:	determined, if relevant.
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	R	eference to external files, if relevant					
		order has been followed? e means that the data source with the highest rank within	If not, why?	or VII of the EAR has been used. If this	is not the case, please select "EALSE"		
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		· Uncertainty assessment: other data sources lead to lower uncertainty according to the simplified uncertainty assessment pursuant to Article 7(2) of the FAR.					
		echnical infeasibility: the use of better data sources is technical infeasibility: the use of better data sources would in					
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		heat flows imported from non-ETS installat					
For the	specific purp	oose of the NIMs data collection, this section should co	ver all data provided in section F.(d)	and F.(k).iv in the "baseline data colle	ection" template.		
		of the FAR, an amount of emissions has to be deducted t		om product-benchmark sub-installations.			
This sho		de any heat from nitric acid pursuant to Article 16(5) of the	FAR.				
	D	escription of the methodology applied					
	PI	lease describe how it is determined that the heat is from n	on-ETS origin and that it is consumed w	vithin the system boundaries of this sub-i	nstallation.		
Data require	d for the d	determination of the benchmark improve	ement rate pursuant to Artic	le 10a(2) of the Directive			
		able emissions					
		ctly attributable emissions pose of the NIMs data collection, this section should co	wer all data provided in section F.(g)	in the "baseline data collection" temp	late.		
Please of	describe here l	how the emissions of source streams and emissions source					
FAR, ta	-	ideration the following exemptions: missions attributable to measurable heat imported to or ex	norted from this sub-installation should	not he described here but under point (a) helow in accordance with the		
		rovisions set out in section 10.1.2, sub-sections 4 and 5 of		ior bo doddibod horo bar andor point (9,			
		missions from waste gases which are IMPORTED from ot) below.	her installations or sub-installations and	consumed in this sub-installation, should	not be included here but under point		
The des		i below. d include an appropriate reference to the latest approved i	monitoring plan under the M&R Regulat	ion using the same names for all source	streams and emissions.		
	_						
		eference to external files, if relevant					
		al source streams relevant? pose of the NIMs data collection, this section should co	wer all data provided in section E (i) i	n the "baseline data collection" temp	ato		
		scribe below how corresponding amounts are monitored, in					
Pleases	select below:		and an annual adversaria adversaria da a				
		e data source used for the quantifaction of amounts impo- ne method used for the determination of all calculation factors					
			Data source	Other data source (if	Other data source (if		
	1 1	mounts imported or exported	Data Couroo	applicable)	applicable)		
		nergy content					
		mission factor or carbon content					
		iomass content					
	5. D	escription of the methodology applied					
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iii la tran		eference to external files, if relevant					
		2 imported or exported relevant? pose of the NIMs data collection, this section should co	ver all data provided in section F.(j) i	n the "baseline data collection" temple	ate.		
lf releva	nt, please des	scribe below how corresponding amounts are monitored, in	n particular if not already covered by the	e monitoring plan under the M&R Regular	tion.		
	R	eference to external files if relevant					
		eference to external files, if relevant					
	nput to this	eference to external files, if relevant s sub-installation and relevant emission fac pose of the NIMs data collection, this section should co		in the "baseline data collection" temp	late.		
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(g)	For the specific p	eat import to and export from this sub-installa urpose of the NIMs data collection, this section should co	over all data provided in section F.(k)		late.
		nissions will take into account any import or export of measure e heat flows relevant for this sub-installation?	able heat pursuant to sections 10.1.2 a	and 10.1.3 of Annex VII of the FAR.	
	I. Are measurable				
i		the methodology applied			
	Please select belo	w: the data source used for the energy flows pursuant to secti	ion 4.5 of Annex VII of the FAR.		
		the method used for the determination of annual quantities, As more than one of the data sources might be involved, th			d places called the three main sources
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			Data source	Other data source (if applicable)	Other data source (if applicable)
		Measurable heat imported			applicable)
		Measurable heat from pulp Measurable heat from nitric acid			
	4.	Measurable heat exported			
		Net measurable heat flows			
	5.	Description of the methodology applied			
		Reference to external files, if relevant			
ii		al order has been followed?	If not, why?		
		here means that the data source with the highest rank within son for that from the drop-down list and describe further deta			is not the case, please select "FALSE"
		Uncertainty assessment: other data sources lead to lower u		incertainty assessment pursuant to Article	e 7(2) of the FAR.
		Technical infeasibility: the use of better data sources is tech. Unreasonable costs: the use of better data sources would it			
		Further details on any deviation from the hierarc	chy		
iv		he methodology for determination of the relevant	attributable emission factors in	accordance with sections 10.1.2	and 10.1.3 of Annex VII (FAR)
	This should cover	the emission factor for each type of measurable heat flow ide	entified above.		<u>. unu 10.1.0. 0174110x VII (1741).</u>
	If the heat is produ	ced from CHPs, please describe how all parameters in chapt	ter 8 of Annex VII of the FAR have bee	n determined.	
		Reference to external files, if relevant			
v	/. Are measurable	e heat flows imported from sub-installations produ	ucing pulp relevant?		
		Description of the methodology applied			
(h)		ance for this sub-installation urpose of the NIMs data collection, this section should co	over all data provided in section F.(I)	in the "baseline data collection" tempi	
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i	For the specific p The attributable er i. <u>Are waste gase</u> ii. <u>Information on</u> Please select belo Please select belo 1 1 2 3 4 4 5 6 6 7 7 7 8 8 9 10, 11 12 13, 14, 15, 15 15 15 15 15 15 15 15 15 15 15 15 15	urpose of the NMMs data collection, this section should co- nissions will take into account any import or export of waste gas relevant for this sub-installation? the methodology applied w for each type of waste gas produced, consumed (including the data source used for the quantifaction of the waste gas the method used for the determination of energy content ar As more than one of the data sources might be involved, th and describe further details in the description of the method Waste gases produced Energy content Emission factor Waste gases flared (not safety flaring) Energy content Emission factor Waste gases imported Energy content Emission factor Waste gases sourced Energy content Emission factor Waste gases sexported Energy content Emission factor Waste gases exported Energy content Emission factor	ases pursuant to section 10.1.5 of Ann safety flaring), flared (other than safet amounts pursuant to section 4.4 of Ar d emission factor pursuant section 4.6 te template provides for up to three sou fology below.	nex VII of the FAR. y flaring), imported and exported: intex VII of the FAR. of Annex VII of the FAR. intex. If even further sources are involved. Other data source (if	t, please select the three main sources Other data source (if
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i	For the specific p The attributable er i. <u>Are waste gase</u> ii. <u>Information on</u> Please select belo Please select belo 1 1 2 3 4 4 5 6 6 7 7 7 8 8 9 10, 11 12 13, 14, 15, 15 15 15 15 15 15 15 15 15 15 15 15 15	urpose of the NMMs data collection, this section should co- nissions will take into account any import or export of waste gas as releavant for this sub-installation? the methodology applied w for each type of waste gas produced, consumed (including the data source used for the quantifaction of the waste gas the method used for the determination of energy content at As more than one of the determination of energy content and describe further details in the description of the method waste gases produced Energy content Emission factor Waste gases flared (not safety flaring) Energy content Emission factor Waste gases imported Energy content Emission factor Waste gases exported Energy content Emission factor Waste gases exported Energy content Emission factor Waste gases exported Energy content Emission factor Waste gases exported Energy content Emission factor Description of the methodology applied This should hold information for all types of waste gases If flaring is relevant in your installation, please explain how it	ases pursuant to section 10.1.5 of Ann safety flaring), flared (other than safet amounts pursuant to section 4.4 of Ar rd emission factor pursuant section 4.6 of Ar rd emission factor pursuant section 4.6 of Ar rd etermplate provides for up to three sou loogy below. Data source background backgro	ex VII of the FAR. y flaring), imported and exported: insex VII of the FAR. of Annex VII of the FAR. irces. If even further sources are involved Other data source (if applicable)	t, please select the three main sources Other data source (if
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i	For the specific p The attributable er i. Are waste gase ii. Information on Please select belo 1 1 1 2 3 3 4 4 5 6 6 7 7 8 9 9 9 10 11 12 13 14 15 16	urpose of the NMMs data collection, this section should co- nissions will take into account any import or export of waste gas is relevant for this sub-installation? the methodology applied w for each type of waste gas produced, consumed (including the data source used for the quantifaction of the waste gas the method used for the determination of energy content ar As more than one of the data sources might be involved, the and describe further details in the description of the method Waste gases produced Energy content Emission factor Waste gases consumed Energy content Emission factor Waste gases flared (not safety flaring) Energy content Emission factor Waste gases imported Energy content Emission factor Waste gases exported Energy content Emission factor Waste gases exported Energy content Emission factor Description of the methodology applied This should include information for all types of waste gases If flaring is relevant in your installation, please explain how it flaring is relevant in your installation, please explain how it and nor that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest rank within tan for that from the data source with the highest	ases pursuant to section 10.1.5 of Ann section 10.1.5	A vili of the FAR.	d, please select the three main sources Other data source (if applicable)

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2 Sub		ith product benchmark:			
		product benchmark sub-installation is displayed automatically			
		ructions for data entries in this tool can be fou	nd at the first copy of this tool	l <u>. (F.I.1)</u>	
(a)	-	daries of the sub-installation n the methodology applied			
		external files, if relevant			
i		a separate detailed flow diagram, if relevant			
(b)		he determination of annual production (=activit	ty) levels		
	I. Information of	n the methodology applied	Data source	Other data source (if	Other data source (if
		1. Quantities of products		applicable)	applicable)
		2. Annual quantities of products			•
	:	3. Special reporting requirements:			
		4. Description of the methodology applied			
	_	Reference to external files, if relevant	···		
	ii. The hierarchi	cal order has been followed?	If not, why?		
		Further details on any deviation from the hierard			
	iii Decoriction -	the methodology for keeping track of the product	produced		
	III. Description of	f the methodology for keeping track of the products	s produced		
(c)	Exchangeab	ility of fuel and electricity:			
	i. Information or	n the methodology applied		Other data source (if	Other data source (if
			Data source	applicable)	applicable)
		<u>Relevant electricity consumption</u> <u>Description of the methodology applied</u>			
		2. Description of the methodology applied			
	". The biorershi	Reference to external files, if relevant cal order has been followed?	If not, why?		
	II. The metalchin	Further details on any deviation from the hierard			
			,		
(d)	Are measura	ble heat flows imported from non-ETS installat Description of the methodology applied	tions or entities relevant?		
Data	a required for t	the determination of the benchmark improve	ement rate pursuant to Artic	le 10a(2) of the Directive	
(e)	Directly attri	butable emissions			
	i. Attribution of	directly attributable emissions			
		Reference to external files, if relevant			
	ii. Are further int	ternal source streams relevant?	1	Other data source (if	Other data source (if
			Data source	applicable)	applicable)
		Amounts imported or exported Energy content			
	:	3. Emission factor or carbon content			
		4. Biomass content 5. Description of the methodology applied			l
	10 Ja 4	Reference to external files, if relevant CO2 imported or exported relevant?			

		Reference to external files, if relevant			
(f)		this sub-installation and relevant emission fac the methodology applied	ctor		
			Data source	Other data source (if applicable)	Other data source (if applicable)
		. Fuel input			
		. Weighted emission factor . Description of the methodology applied			
	3.				
		Reference to external files, if relevant			
	ii. The hierarchica	al order has been followed?	If not, why?		
		Further details on any deviation from the hierard	chy		
(q)		eat import to and export from this sub-installa	ation		
	i. Are measurable	e heat flows relevant for this sub-installation?			
	ii. Information on	the methodology applied			
			Data source	Other data source (if applicable)	Other data source (if applicable)
		. Measurable heat imported		applicable)	applicable)
		. Measurable heat from pulp . Measurable heat from nitric acid			
	4.	. Measurable heat exported			
		. Net measurable heat flows			
	6	. Description of the methodology applied			
		Reference to external files, if relevant			
	iii. The hierarchica	al order has been followed?	If not, why?		
		Further details on any deviation from the hierard	chy		
	iv. Description of t	the methodology for determination of the relevant	t attributable emission factors in a	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
		Reference to external files, if relevant			
	v. Are measurable	e heat flows imported from sub-installations prod Description of the methodology applied	ucing pulp relevant?		
(h)	Waste gas bal	lance for this sub-installation			
	i. Are waste gase	es relevant for this sub-installation?			
	ii. Information on	the methodology applied			
			Data source	Other data source (if	Other data source (if
	1.	. Waste gases produced		applicable)	applicable)
	2.	. Energy content			
		. Emission factor . Waste gases consumed			
	5.	Energy content			
	7.	. Waste gases flared (not safety flaring)			
	8	Energy content			
	10.	. Waste gases imported			
		Energy content Emission factor			
	13.	. Waste gases exported			
	14. 15	Energy content Emission factor			
		. Description of the methodology applied			•
		Reference to external files, if relevant	w		
	III. The hierarchica	al order has been followed?	If not, why?		
		Further details on any deviation from the hierard			

G. Sheet "Fall-back" - SUB-INSTALLATION DATA RELATING TO FALL-BACK SUB-INSTALLATIONS

If the extent of the methods are discussed to extend the sector of the s	and a start of the second device the base of the second and a second start of the U.S. starts and second
descriptions of the methods used in subsequent section calculation steps	ns below to quantify parameters to be monitored and reported shall include, where relevant:
- data sources	
- calculation formulae	
- relevant calculation factors including unit of measureme	ent
 horizontal and vertical checks for corroborating data 	
 procedures underpinning sampling plans 	
the second s	levant diagram and a description how they are installed and maintained
 a list of laboratories engaged in carrying out relevant an 	nalytical procedures
he description shall include the result of a simplified unce	ertainty assessment in accordance with Article 7(2), where required.
or each relevant calculation formula the plan shall contain	one example using real data.
all-back sub-installations	
all-back sub-installation:	Heat benchmark sub-installation, CL

	e a detailed flow diagram, if not included under i. above. vity levels is section should cover all data provided in section G.(a) in the "baseline data collection" template. vity levels vity levels vity levels vity and quantities pursuant to section 7.2 of Annex VII of the FAR. might be involved, the template provided for up to three sources. If even further sources are involved, please select the three many applicable of the methodology below. Data source Data source Data source Other data source (if applicable) v applied mptions if the 95% rule in Article 10(3) of the FAR is applied. Selevant Inf ont, why? reget and work of the source of the other data source (if applicable) if not, why? reget and work of the source of the source of the other data source of the case, please net and describe further datas below. Reasons for deviation can be the following: ources lead to bew uncertaining according to the simplified uncertainty assessment pursuant to Article 7(2) of the FAR. data sources work other uncerasonable costs. of the netrocology below with sections 2.1(a) and chapter 9 of Annex VII (FAR). For the hierarchy is and describe how you have determined the cator heakage status of the processes in which this measurable please describe how you have determined the cator leakage status of the processes in which this measurable please describe how you have determined the cator for the "baseline data collection" template. and emissions sources are estimated to this sub-installation in accordance with the provises with the data mode with section 2.1(a) and chapter 9 of Annex VII (FAR). For the hierarchy is section should cover all data provided in section 6.(c) in the "baseline data collection" template. and emissions sources are estimated to this sub-installation in accordance with the provises set on the installation, or a more on cation within section 10.1 of Annee cation work of the sub-installation, the emissions may be directly attributed here with the fuel's emissions. There ather	" dis	information is already provided in sufficient detail in section C.II, plea:	, mondo renerence nere to un		
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Wherever fuels are used to produce measurable heat which is consumed in more than one sub-installation (e.g. a central power hous stearn network with several heat producing units), the fuels should not be included in the Directly attributable emissions of the sub-inst	neasurable heat which is consumed in more than one sub-installation (e.g. a central power house at the installation, or a more co ucing units), the fuels should not be included in the Directly attributable emissions of the sub-installation but under point (d) below hase describe how all parameters in chapter 8 of Annex VII of the FAR have been determined. I heat produced from waste gases imported from other installations or sub-installations and used in this sub-installation, should no	This s If you If you (c) Dire For t Pleas	Technical infeasibility: the use of better data sources is technic Unreasonable costs: the use of better data sources would in Further details on any deviation from the hierarch pription of the methodology for keeping track of the products p thould netude the methodology on how relevant PRODCOM codes are trac- have exported measurable heat to on-ETS installations or entities, please have exported measurable heat to district heating, please describe how your red for the determination of the benchmark improven- ctly attributable emissions he specific purpose of the NIMS data collection, this section should cow e describe here how the emissions of source streams and emissions sources	cal infeasible. cur unreesonable costs. y <u>produced</u> ked in accordance with sections 2.1 (<i>i</i> describe how you have determined the au have determined the respective and un have determined the respective and ment rate pursuant to Article er all data provided in section G.(c.	a) and chapter 9 of Annex VII (FAR). the carbon leakage status of the processe nounts. cle 10a(2) of the Directive) in the "baseline data collection" temp	es in which this measurable
	ease describe how all parameters in chapter 8 of Annex VII of the FAR have been determined. I heat produced from waste gases imported from other installations or sub-installations and used in this sub-installation, should no	This s If you If you (c) Dire For t Pleas	Technical infeasibility: the use of better data sources is technic Unreasonable costs: the use of better data sources would in Further details on any deviation from the hierarch involution of the methodology for keeping track of the products of thould include the methodology on how relevant PRODCOM codes are track have exported measurable heat to non-ETS installations or entities, please have exported measurable heat to non-ETS installations or entities, please have exported measurable heat for district heating, please describe how you red for the determination of the benchmark improventing the specific purpose of the NIMs data collection, this section should cove e describe here how the emissions of source streams and emissions source taking into consideration the following excemptions:	cal infeasible. cur unreasonable costs. y produced ked in accordance with sections 2.1 (i describe how you have determined th u have determined the respective an u have determined the respective and u have determined the respective and u have determined the respective and the section section S.C.C.C. es are attributed to this sub-installation	a) and chapter 9 of Annex VII (FAR). the carbon leakage status of the processe nounts. cle 10a(2) of the Directive) in the "baseline data collection" temp n in accordance with the provisions set ou	es in which this measurable
	heat produced from waste gases imported from other installations or sub-installations and used in this sub-installation, should no	This s If you If you (c) Dire For t Pleas	Technical infeasibility: the use of better data sources is technic Unreasonable costs: the use of better data sources would in Further details on any deviation from the hierarch include the methodology for keeping track of the products p invold include the methodology on how relevant PRODCOM codes are trac- have exported measurable heat to non-ETS installations or entities, please have exported measurable heat for district heating, please describe how you red for the determination of the benchmark improver city attributable emissions of e specific purpose of the MMs data collection, this section should cove e describe here how the emissions of source streams and emissions source taking into consideration the following excemptions: - Measurable heat: where the heat is exclusively produced for	cal infeasible. cur unreesonable costs. <u>voduced</u> ked in accordance with sections 2.1 (i describe how you have determined the au have determined the respective and un have determined the respective and un have determined the respective and produced entifying the section of the section of the section of the produced in section G. (c) produced the sub-installation this sub-installation, the emissions mini- the sub-installation, the emissions mini- the sub-installation, the emissions mini- the sub-installation, the emissions mini- the sub-installation in the emission is the emission in the emission in the emission is the emission in the emission is the emission in the emission is the emi	a) and chapter 9 of Annex VII (FAR). the carbon leakage status of the processe nounts. cle 10a(2) of the Directive) In the "baseline data collection" tempo n in accordance with the provisions set ou ay be directly attributed here via the fuel's	es in which this measurable
	heat produced from waste gases imported from other installations or sub-installations and used in this sub-installation, should no	This s If you If you (c) Dire For t Pleas	Technical infeasibility: the use of better data sources is technic Unreasonable costs: the use of better data sources would in Further details on any deviation from the hierarch pription of the methodology for keeping track of the products p thouki network methodology on how relevant PRODCOM codes are trac- have exported measurable heat to non-ETS installations or entities, please have exported measurable heat for district heating, please describe how you red for the determination of the benchmark improver ctly attributable emissions he specific purpose of the NIMs data collection, this section should cow e describe here how the emissions of source streams and emissions source taking into consideration the following excemptions: Measurable heat: where the heat is exclusively produced for Wherever fuels are used to produce measurable heat which.	cal infeasible. pur unreasonable costs. y produced Ked in accordance with sections 2.1 (i describe how you have determined to but have determined the respective and the respective and ment rate pursuant to Artice er all data provided in section G.(c, s are attributed to this sub-installatio this sub-installation, the emissions mm is consumed in more than one sub-in	a) and chapter 9 of Annex VII (FAR). he carbon leakage status of the processe nounts. cle 10a(2) of the Directive) in the "baseline data collection" temp n in accordance with the provisions set ou at the directly attributed here via the fuel's stallation (e.g. a central power house at the	es in which this measurable state. ut in section 10.1.1 of Anner = emissions. he installation, or a more co
 emissions associated with measurable heat produced from waste gases imported from other installations or sub-installations and used 		This s If you If you (c) Dire For t Pleas	Technical infeasibility: the use of better data sources is technic Unreasonable costs: the use of better data sources would in Eurther details on any deviation from the hierarch cription of the methodology for keeping track of the products p thould include the methodology on how relevant PRODCOM codes are track have exported measurable heat to non-ETS installations or entities, please have exported measurable heat for district heating, please describe how you read for the determination of the benchmark improver city attributable emissions of source streams and emissions source taking into consideration the following excemptions: Measurable heat: where the heat is exclusively produced for Wherever fuels are used to produce measurable heat which, steam network with several heat producing units), the fuels as	cal infeasible. cur unreesonable costs. <u>produced</u> ked in accordance with sections 2.1 (i describe how you have determined the au have determined the respective and un have determined the respective and the respective and produced nent rate pursuant to Article er all data provided in section G.(c, as are attributed to this sub-installatio this sub-installation, the emissions mmis is consumed in more than one sub-in hould not be included in the Directly a	a) and chapter 9 of Annex VII (FAR). the carbon leakage status of the processe nounts. cle 10a(2) of the Directive) in the "baseline data collection" temp n in accordance with the provisions set ou ay be directly attributed here via the fuel's staliation (e.g. a central power house at the staliation (e.g. a central power house at the output of the sub-instaliation)	es in which this measurable state. ut in section 10.1.1 of Anner = emissions. he installation, or a more co
included here but under point (d) below.		This s If you If you (c) Dire For t Pleas	Technical infeasibility: the use of better data sources is technic Unreasonable costs: the use of better data sources would in Further details on any deviation from the hierarch cription of the methodology for keeping track of the products of hould include the methodology on how relevant PRODCOM codes are trac- have exported measurable heat to on-FTS installations or entities, please have exported measurable heat to mission in the intervention of the benchmark improver ctiption of the determination of the benchmark improver ctiption of the emissions of source streams and emissions source taking into consideration the following excemptions: . Measurable heat: where the heat is exclusively produced for Wherever fuels are used to produce measurable heat which steam network with several heat producing units), the fuels s If the heat is produced from CHPs, please describe how all p	cal infeasible. cur unreesonable costs. <u>produced</u> ked in accordance with sections 2.1 (i describe how you have determined the pur have determined the respective and and the respective and the respective and ment rate pursuant to Artic er all data provided in section G.(c as are attributed to this sub-installation this sub-installation, the emissions m is consumed in more than one sub-in hould not be included in the Directly e arameters in chapter 8 of Annex VII of	a) and chapter 9 of Annex VII (FAR). the carbon leakage status of the processe nounts. cle 10a(2) of the Directive) in the "baseline data collection" temp n in accordance with the provisions set ou ay be directly attributed here via the fuel's stallation (e.g. a central power house at the thttbutable emissions of the sub-installatio of the FAR have been determined.	es in which this measurable plate. ut in section 10.1.1 of Anne: emissions. he installation, or a more co n but under point (d) below
		This s If you If you (c) Dire For t Pleas	Technical infeasibility: the use of better data sources is technic Unreasonable costs: the use of better data sources would in Further details on any deviation from the hierarch methodology for keeping track of the products p through include the methodology on how relevant PRODCOM codes are trace have exported measurable heat to non-ETS installations or entities, please have exported measurable heat to non-ETS installations or entities, please have exported measurable heat to non-ETS installations or entities, please have exported measurable heat to non-ETS installations or entities, please have exported measurable heat for district heating, please describe how yo red for the determination of the benchmark improver ctly attributable emissions he specific purpose of the NIMs data collection, this section should cov e describe here how the emissions of source streams and emissions source taking into consideration the following excemptions: - Measurable heat: where the heat is exclusively produced for Wherever fuels are used to produce measurable heat which steam network with several heat producing units), the fuels as If the heat is produced from CHPs, please describe how all p - emissions associated with measurable heat produced for models	cal infeasible. cur unreesonable costs. <u>produced</u> ked in accordance with sections 2.1 (i describe how you have determined the pur have determined the respective and and the respective and the respective and ment rate pursuant to Artic er all data provided in section G.(c as are attributed to this sub-installation this sub-installation, the emissions m is consumed in more than one sub-in hould not be included in the Directly e arameters in chapter 8 of Annex VII of	a) and chapter 9 of Annex VII (FAR). the carbon leakage status of the processe nounts. cle 10a(2) of the Directive) in the "baseline data collection" temp n in accordance with the provisions set ou ay be directly attributed here via the fuel's stallation (e.g. a central power house at the thttbutable emissions of the sub-installatio of the FAR have been determined.	es in which this measurable plate. ut in section 10.1.1 of Anne: emissions. he installation, or a more co n but under point (d) below
		This s If you If you (c) Dire For t Pleas	Technical infeasibility: the use of better data sources is technic Unreasonable costs: the use of better data sources would in Further details on any deviation from the hierarch methodology for keeping track of the products p through include the methodology on how relevant PRODCOM codes are trace have exported measurable heat to non-ETS installations or entities, please have exported measurable heat to non-ETS installations or entities, please have exported measurable heat to non-ETS installations or entities, please have exported measurable heat to non-ETS installations or entities, please have exported measurable heat for district heating, please describe how yo red for the determination of the benchmark improver ctly attributable emissions he specific purpose of the NIMs data collection, this section should cov e describe here how the emissions of source streams and emissions source taking into consideration the following excemptions: - Measurable heat: where the heat is exclusively produced for Wherever fuels are used to produce measurable heat which steam network with several heat producing units), the fuels as If the heat is produced from CHPs, please describe how all p - emissions associated with measurable heat produced for models	cal infeasible. cur unreesonable costs. <u>produced</u> ked in accordance with sections 2.1 (i describe how you have determined the pur have determined the respective and and the respective and the respective and ment rate pursuant to Artic er all data provided in section G.(c as are attributed to this sub-installation this sub-installation, the emissions m is consumed in more than one sub-in hould not be included in the Directly e arameters in chapter 8 of Annex VII of	a) and chapter 9 of Annex VII (FAR). the carbon leakage status of the processe nounts. cle 10a(2) of the Directive) in the "baseline data collection" temp n in accordance with the provisions set ou ay be directly attributed here via the fuel's stallation (e.g. a central power house at the thttbutable emissions of the sub-installatio of the FAR have been determined.	es in which this measurable plate. ut in section 10.1.1 of Anne: emissions. he installation, or a more co n but under point (d) below
		This s If you If you Concerning the second For the second	Technical infeasibility: the use of better data sources is technic Unreasonable costs: the use of better data sources would in Further details on any deviation from the hierarch methodology for keeping track of the products p through include the methodology on how relevant PRODCOM codes are trace have exported measurable heat to non-ETS installations or entities, please have exported measurable heat to non-ETS installations or entities, please have exported measurable heat to non-ETS installations or entities, please have exported measurable heat to non-ETS installations or entities, please have exported measurable heat for district heating, please describe how yo red for the determination of the benchmark improver ctly attributable emissions he specific purpose of the NIMs data collection, this section should cov e describe here how the emissions of source streams and emissions source taking into consideration the following excemptions: - Measurable heat: where the heat is exclusively produced for Wherever fuels are used to produce measurable heat which steam network with several heat producing units), the fuels as If the heat is produced from CHPs, please describe how all p - emissions associated with measurable heat produced for models	cal infeasible. cur unreesonable costs. <u>produced</u> ked in accordance with sections 2.1 (i describe how you have determined the pur have determined the respective and and the respective and the respective and ment rate pursuant to Artic er all data provided in section G.(c as are attributed to this sub-installation this sub-installation, the emissions m is consumed in more than one sub-in hould not be included in the Directly e arameters in chapter 8 of Annex VII of	a) and chapter 9 of Annex VII (FAR). the carbon leakage status of the processe nounts. cle 10a(2) of the Directive) in the "baseline data collection" temp n in accordance with the provisions set ou ay be directly attributed here via the fuel's stallation (e.g. a central power house at the thttbutable emissions of the sub-installatio of the FAR have been determined.	es in which this measurable plate. ut in section 10.1.1 of Anne: emissions. he installation, or a more co n but under point (d) below

	For the specific	purpose of the Millis data collection, th	is section should cove	er all data provided in section G.(d)	in the "baseline data collection" temp	late.
	i. Information or Please select be	the methodology applied				
	Please select be	 the data source used for the quantifac 	tion of the fuel input pur	suant to section 4.4 of Annex VII of th	ne FAR.	
		The term "fuel" should be understood - the method used for the determination			n that is combustible and for which a net	calorific value can be determined.
		The weighted emission factor correspo	onds to the accumulated	I emissions from the fuels, including th	nose used to produce measurable heat,	divided by the total energy content. The
		weighted emission factor should furthe			g, if applicable. ces. If even further sources are involved	I please select the three main sources
		and describe further details in the desc				
			Relevant?	Data source	Other data source (if	Other data source (if
		1. Fuel input			applicable)	applicable)
	:	2. Net calorific value				
		 Weighted emission factor Fuel input from waste gases 				
	-	5. Net calorific value				
		6. Emission factor				
		Description of the methodology	applied			
		Defense to enternel files, if as			r	
	ii The bierarchi	Reference to external files, if re cal order has been followed?	elevant	If not, why?		
	II. The merarching	Further details on any deviation	from the hierarch			
			Thom the merarchy			
(e)		neat produced				
		purpose of the NIMs data collection, th the methodology applied	is section should cove	er all data provided in section G.(e)	in the "baseline data collection" temp	late.
		w the data source pursuant to section 4.	5 of Annex VII of the FA	R used to determine the amount of m	neasurable heat produced.	
		e of the data sources might be involved, t cription of the methodology below.	he template provides for	r up to three sources. If even further s	sources are involved, please select the ti	hree main sources and describe further
			1	Dete source	Other data source (if	Other data source (if
				Data source	applicable)	applicable)
		1. Heat produced				
	:	 Description of the methodology 	applied			
					r	
		Reference to external files, if re	elevant			
	ii. The hierarchie	al order has been followed?		If not, why?		
		Further details on any deviation	n from the hierarchy	/		
(f)	Measurable I	neat imported				
.,		purpose of the NIMs data collection, th			in the "baseline data collection" temp	late.
	i. Are further me	easurable heat flows relevant for t	his sub-installation	?		
	ii Information or	the methodology applied				
	Please enter belo	w the data source pursuant to section 4.			neasurable heat imported and the metho	d used for the determination of net
	amounts pursuai	 to section 7.2 of Annex VII of the FAR f Net heat imported (other sources): this 			accurable heat is consumed by more the	on one sub-installation, best produced
		onsite and consumed within this sub-ir	stallation. Measurable I	neat imported from any product BM su	ib-installation, pulp production, measura	ble heat recovered from fuel BM sub-
		installations or from waste gases shou				
		 Heat from product BM: this includes m production. 	easurable heat exporte	d from product BM sub-installation wit	h the exception of measurable heat fron	n sub-installations producing pulp
		- Heat from pulp: this includes heat impo				
		 Heat from fuel BM: this includes meas Heat from waste gases: this includes r 			allations.	
					ces. If even further sources are involved	, please select the three main sources
			cription of the methodol	ogy below.		
		and describe further details in the desc				Other data source (if
		and describe further details in the desc	Relevant?	Data source	Other data source (if applicable)	applicable)
		1. imported (other sources)	Relevant?	Data source	Other data source (if applicable)	applicable)
	:	imported (other sources) Net measurable flows	Relevant?	Data source		applicable)
		imported (other sources) Net measurable flows imported (from product BM) Net measurable flows	Relevant?	Data source		applicable)
	:	imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pulp)	Relevant?	Data source		applicable)
		imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pulp) Net measurable flows	Relevant?	Data source		applicable)
		imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pulp) Net measurable flows imported (from fuel BM) Net measurable flows	Relevant?	Data source		applicable)
		Imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pulp) Net measurable flows morted (from tuel BM) Net measurable flows imported (from waste gases)	Relevant?	Data source		applicable)
	1	Imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pulp) Net measurable flows imported (from tuel BM) Net measurable flows imported (from waste gases) Net measurable flows		Data source		applicable)
	1	Imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pulp) Net measurable flows morted (from tuel BM) Net measurable flows imported (from waste gases)		Data source		applicable)
	1	Imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pulp) Net measurable flows imported (from tuel BM) Net measurable flows imported (from waste gases) Net measurable flows		Data source		applicable)
	1	Imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pulp) Net measurable flows imported (from tuel BM) Net measurable flows imported (from waste gases) Net measurable flows		Data source		applicable)
	1	Imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pulp) Net measurable flows imported (from tuel BM) Net measurable flows imported (from waste gases) Net measurable flows		Data source		applicable)
	1	imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pulp) Net measurable flows imported (from tuel BM) Net measurable flows imported (from waste gases) Net measurable flows Description of the methodology	a applied	Data source		applicable)
	11	imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pulp) Net measurable flows imported (from fuel BM) Net measurable flows imported (from waste gases) Net measurable flows Description of the methodology	a applied			applicable)
	11		applied	If not, why?		applicable)
	11	imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pulp) Net measurable flows imported (from fuel BM) Net measurable flows imported (from waste gases) Net measurable flows Description of the methodology	applied	If not, why?		applicable)
	11		applied	If not, why?		applicable)
	ii. <u>The hierarchic</u> iii. <u>Description of</u>		applied	If not, why?	applicable)	
	 ii. <u>The hierarchia</u> iii. <u>Description of</u> <i>This should cove</i> 	imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pup) Net measurable flows imported (from tuel BM) Net measurable flows netration of the methodology Reference to external files, if re cal order has been followed? Further details on any deviation	a pplied	If not, why?	applicable)	
	 ii. <u>The hierarchia</u> iii. <u>Description of</u> <i>This should cove</i> 	imported (other sources) Net measurable flows imported (from product BM) Net measurable flows imported (from pulp) Net measurable flows imported (from twel BM) Net measurable flows imported (from waste gases) Net measurable flows loscription of the methodology Reference to external files, if re al order has been followed? Further details on any deviation the methodology for determinatic the emission factor for each type of mee	a pplied	If not, why?	applicable)	

Reference to external files, if relevant

2 Fall-back sub-	installation:	Heat benchmark sub-install	ation, non-CL	
Detailed	instructions for data entries in this tool can be for	und at the first copy of this tool	. (G.I.1)	
-	oundaries of the sub-installation			
	on on the methodology applied			
ii. <u>Referenc</u>	e to external files, if relevant			
	e to a separate detailed flow diagram, if relevant			
(b) Method f	or the determination of annual activity levels ecific purpose of the NIMs data collection, this section should o	cover all data provided in section G.(a)	in the "baseline data collection" temp	late.
	on on the methodology applied	1		
		Data source	Other data source (if applicable)	Other data source (if applicable)
	Quantification of measurable heat flows Net measurable heat flows			
	3. Description of the methodology applied			
	 Reference to external files, if relevant 			
ii. <u>The hiera</u>	rchical order has been followed?	If not, why?		
	Further details on any deviation from the hierar	rchy		
iii. <u>Descriptie</u>	on of the methodology for keeping track of the product	ts produced		
	for the determination of the benchmark improv	vement rate pursuant to Articl	e 10a(2) of the Directive	
	attributable emissions actific purpose of the NIMs data collection, this section should o	cover all data provided in section G.(c)	in the "baseline data collection" temp	late.
	Reference to external files, if relevant			
For the spe	ut to this sub-installation and relevant emission fa acific purpose of the NIMs data collection, this section should o	cover all data provided in section G.(d)	in the "baseline data collection" temp	late.
i. <u>Informatio</u>	on on the methodology applied	Data source	Other data source (if	Other data source (if
	1. Fuel input		applicable)	applicable)
	2. <u>Net calorific value 3. Weighted emission factor </u>			
	4. Fuel input from waste gases 5. Net calorific value			
	6. Emission factor			
	7. Description of the methodology applied			
	Reference to external files, if relevant			
ii. <u>The hiera</u>	rchical order has been followed?	If not, why?		
	Further details on any deviation from the hierar			
(1)				
For the spe	ble heat produced ecific purpose of the NIMs data collection, this section should o	cover all data provided in section G.(e)	in the "baseline data collection" temp	late.
i. <u>Informatio</u>	on on the methodology applied	Data source	Other data source (if	Other data source (if
	1. Heat produced		applicable)	applicable)
	2. Description of the methodology applied			
ii The biera	Reference to external files, if relevant irchical order has been followed?	If not, why?		

(f)	Measurable heat imported				
	For the specific purpose of the NIMs data collection,			in the "baseline data collection" templ	late.
i	i. Are further measurable heat flows relevant for	this sub-installatio	<u>n?</u>		
	i. Information on the methodology applied				
	. Information on the methodology applied		_ .	Other data source (if	Other data source (if
		Relevant?	Data source	applicable)	applicable)
	1. imported (other sources) 2. Net measurable flows				
	3. imported (from product BM)				
	4. Net measurable flows				
	5. imported (from pulp)				
	6. <u>Net measurable flows</u> 7. imported (from fuel BM)				
	8. Net measurable flows				
	9. imported (from waste gases)				
	10. Net measurable flows				
	11. Description of the methodolog	gy applied			
	Reference to external files, if	relevant			
	, The hierarchical order has been followed?		If not, why?		
	Further details on any deviation	on from the hierarc			
			ily in the second s		
iii	i. Description of the methodology for determinat	ion of the relevant	attributable emission factors in a	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
iii	i. Description of the methodology for determinat	ion of the relevant	attributable emission factors in	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
iii	i. Description of the methodology for determinat	ion of the relevant	attributable emission factors in a	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
iii	i. Description of the methodology for determinat	ion of the relevant	attributable emission factors in a	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
iii	i. Description of the methodology for determinat	ion of the relevant	attributable emission factors in a	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
			attributable emission factors in :	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
	i. <u>Description of the methodology for determinat</u>		attributable emission factors in a	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
III			attributable emission factors in a	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
	Reference to external files, if	relevant			and 10.1.3. of Annex VII (FAR).
		relevant	attributable emission factors in a		and 10.1.3. of Annex VII (FAR).
	Reference to external files, if back sub-installation:	relevant	District Heating sub-install	ation, non-CL	and 10.1.3. of Annex VII (FAR).
3 Fall-I	Reference to external files, if back sub-installation: Detailed instructions for data entries in thi	relevant	District Heating sub-install	ation, non-CL	and 10.1.3. of Annex VII (FAR).
3 Fall-I	Reference to external files, if back sub-installation: Detailed instructions for data entries in thi Sytem boundaries of the sub-installation	relevant	District Heating sub-install	ation, non-CL	and 10.1.3. of Annex VII (FAR).
3 Fall-I	Reference to external files, if back sub-installation: Detailed instructions for data entries in thi	relevant	District Heating sub-install	ation, non-CL	and 10.1.3. of Annex VII (FAR).
3 Fall-I	Reference to external files, if back sub-installation: Detailed instructions for data entries in thi Sytem boundaries of the sub-installation	relevant	District Heating sub-install	ation, non-CL	and 10.1.3. of Annex VII (FAR).
3 Fall-I	Reference to external files, if back sub-installation: Detailed instructions for data entries in thi Sytem boundaries of the sub-installation	relevant	District Heating sub-install	ation, non-CL	and 10.1.3. of Annex VII (FAR).
3 Fall-I	Reference to external files, if back sub-installation: Detailed instructions for data entries in thi Sytem boundaries of the sub-installation	relevant	District Heating sub-install	ation, non-CL	and 10.1.3. of Annex VII (FAR).
3 Fall-1 (a)	Reference to external files, if back sub-installation: Detailed instructions for data entries in thi Sytem boundaries of the sub-installation	relevant	District Heating sub-install	ation, non-CL	and 10.1.3. of Annex VII (FAR).
3 Fall-1 (a)	Reference to external files, if back sub-installation: Detailed instructions for data entries in thi Sytem boundaries of the sub-installation i. Information on the methodology applied	relevant s tool can be four	District Heating sub-install	ation, non-CL	and 10.1.3. of Annex VII (FAR).
3 Fall-1 (a)	Reference to external files, if back sub-installation: Detailed instructions for data entries in thi Sytem boundaries of the sub-installation i. Information on the methodology applied i. Reference to external files, if relevant i. Reference to a separate detailed flow diagram	relevant s tool can be four n, if relevant	District Heating sub-install	ation, non-CL	and 10.1.3. of Annex VII (FAR).
3 Fall-1 (a)	Reference to external files, if back sub-installation: Detailed instructions for data entries in thi Sytem boundaries of the sub-installation Information on the methodology applied I. Reference to external files, if relevant	s tool can be four	District Heating sub-install	ation, non-CL	
3 Fall-I (a) ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Reference to external files, if back sub-installation: Detailed instructions for data entries in thi Sytem boundaries of the sub-installation i. Information on the methodology applied i. Reference to external files, if relevant i. Reference to a separate detailed flow diagram Method for the determination of annual ac For the specific purpose of the NIMs date collection,	s tool can be four	District Heating sub-install	ation, non-CL	
3 Fall-I (a) ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Reference to external files, if back sub-installation: Detailed instructions for data entries in thi Sytem boundaries of the sub-installation i. Information on the methodology applied i. Reference to external files, if relevant i. Reference to a separate detailed flow diagram Method for the determination of annual ac	s tool can be four	District Heating sub-install nd at the first copy of this too ver all data provided in section G.(a)	ation, non-CL I. (G.I.1) In the "baseline data collection" temp Other data source (if	late.
3 Fall-I (a) ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Reference to external files, if Detailed instructions for data entries in thi Sytem boundaries of the sub-installation Information on the methodology applied Reference to external files, if relevant Reference to a separate detailed flow diagram Method for the determination of annual ac For the specific purpose of the NIMs data collection, Information on the methodology applied	s tool can be four n, if relevant tivity levels	District Heating sub-install	ation, non-CL I. (G.I.1) I. in the "baseline data collection" temp	
3 Fall-I (a) ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Reference to external files, if Detailed instructions for data entries in thi Sytem boundaries of the sub-installation i. Information on the methodology applied i. Reference to external files, if relevant Reference to a separate detailed flow diagram Method for the determination of annual ac For the specific purpose of the NIIK data collection, i. Information on the methodology applied 1. Quantification of measurable	s tool can be four n, if relevant tivity levels	District Heating sub-install nd at the first copy of this too ver all data provided in section G.(a)	ation, non-CL I. (G.I.1) In the "baseline data collection" temp Other data source (if	late.
3 Fall-I (a) ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Reference to external files, if Detailed instructions for data entries in thi Sytem boundaries of the sub-installation Information on the methodology applied Reference to external files, if relevant Reference to a separate detailed flow diagram Method for the determination of annual ac For the specific purpose of the NIMs data collection, Information on the methodology applied	relevant s tool can be four n, if relevant tivity levels this section should co heat flows	District Heating sub-install nd at the first copy of this too ver all data provided in section G.(a)	ation, non-CL I. (G.I.1) In the "baseline data collection" temp Other data source (if	late.

2. Net measurable heat flows			
3. Description of the methodology app	blied		
Reference to external files, if releva	ant		
ii. The hierarchical order has been followed?	If not, why?		
Further details on any deviation from	m the hierarchy		
iii. Description of the methodology for keeping track of	the products produced		
Data required for the determination of the benchma (c) Directly attributable emissions For the specific purpose of the NIMs data collection, this see		.,	late.
Reference to external files, if releva	ant 		
(d) Fuel input to this sub-installation and relevant e For the specific purpose of the NIMs data collection, this see) in the "baseline data collection" temp	late.
i. Information on the methodology applied	Data source	Other data source (if applicable)	Other data source (if applicable)
1. Fuel input			,

		Net calorific value Weighted emission factor				
	4.	Fuel input from waste gases				
		Net calorific value Emission factor	-			
		Description of the methodology	applied			
		Reference to external files, if re	lovant		ſ	
ii.	The hierarchica	I order has been followed?	levant	If not, why?		
		Further details on any deviation	from the hierard	chy		
(e)	Measurable he	at produced				
	For the specific p	urpose of the NIMs data collection, thi	is section should c	over all data provided in section G.(e)	in the "baseline data collection" temp	late.
ι.	Information on t	he methodology applied		Data source	Other data source (if	Other data source (if
	1	Heat produced		Data Source	applicable)	applicable)
		Description of the methodology	applied			
					r	
	The bierershies	Reference to external files, if re	levant	If not why?		
		I order has been followed? Further details on any deviation	from the hierar	If not, why?		
(f)	Measurable he For the specific p		s section should c	over all data provided in section G.(f) i	n the "baseline data collection" temp	late.
i.	Are further mea	surable heat flows relevant for the	his sub-installati	on?		
ii	Information on t	he methodology applied				
	monnation on	<u>ino mounouology appilou</u>	Relevant?	Data source	Other data source (if	Other data source (if
	1.	imported (other sources)			applicable)	applicable)
		Net measurable flows imported (from product BM)				
	4.	Net measurable flows				
		imported (from pulp) Net measurable flows	-			
	7.	imported (from fuel BM)				
		Net measurable flows imported (from waste gases)				
		Net measurable flows				
	11	Description of the methodology	applied			
		Reference to external files, if re	levant			
ii.		l order has been followed?		If not, why?		
ii.						
	The hierarchica	l order has been followed? Further details on any deviation	from the hierard	chy		
	The hierarchica	l order has been followed? Further details on any deviation	from the hierard		Lecordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
	The hierarchica	l order has been followed? Further details on any deviation	from the hierard	chy	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
	The hierarchica	l order has been followed? Further details on any deviation	from the hierard	chy	Incordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
	The hierarchica	l order has been followed? Further details on any deviation	from the hierard	chy	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
	The hierarchica	l order has been followed? Further details on any deviation	n of the relevant	chy	ccordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
	The hierarchica	I order has been followed? Further details on any deviation he methodology for determination	n of the relevant	chy	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
iii.	The hierarchica	I order has been followed? Further details on any deviation ne methodology for determination Reference to external files, if re	n of the relevant	attributable emission factors in a		and 10.1.3. of Annex VII (FAR),
iii.	The hierarchica	I order has been followed? Further details on any deviation ne methodology for determination Reference to external files, if re	n of the relevant	chy		and 10.1.3. of Annex VII (FAR).
iii.	The hierarchica Description of t	I order has been followed? Further details on any deviation he methodology for determination Reference to external files, if re lation:	from the hierard	attributable emission factors in a	ation, CL	and 10.1.3. of Annex VII (FAR).
	<u>The hierarchics</u> <u>Description of t</u> pack sub-instal <u>Detailed instru</u> Sytem bounda	I order has been followed? Further details on any deviation he methodology for determination Reference to external files, if re lation: ctions for data entries in this ries of the sub-installation	from the hierard	hy attributable emission factors in a	ation, CL	and 10.1.3. of Annex VII (FAR).
	<u>The hierarchica</u> <u>Description of t</u> pack sub-instal <u>Petailed instru</u> Sytem bounda Information on i	I order has been followed? Further details on any deviation he methodology for determination Reference to external files, if re lation: rites for data entries in this rites of the sub-installation he methodology applied	from the hierarn	hy attributable emission factors in a	ation, CL . (G.I.1)	and 10.1.3. of Annex VII (FAR).
	The hierarchica Description of t Description of t Description of t	I order has been followed? Further details on any deviation he methodology for determination Reference to external files, if re lation: ctions for data entries in this rries of the sub-installation he methodology applied ex VI, secton 2(b), please describe the which technical units are included,	from the hierarn	Fuel benchmark sub-install	ation, CL . (G.I.1)	and 10.1.3. of Annex VII (FAR).
	The hierarchica	I order has been followed? Further details on any deviation he methodology for determination Reference to external files, if re lation: sctions for data entries in this rise of the sub-installation he methodology applied ev VI, section 2(b), please describe the	from the hierarn	Fuel benchmark sub-install	ation, CL . (G.I.1)	and 10.1.3. of Annex VII (FAR).
	<u>The hierarchica</u> Description of t Description of t Detailed instru Sytem bounda Information on 1 As required by Am	I order has been followed? Further details on any deviation he methodology for determination Reference to external files, if re Iation: Iation: Inticument of the sub-installation he methodology applied ter VI, section 2(b), please describe the ew vich technical units are included, which processes are carried out, which products and outguts are attribut	from the hierarn	by : attributable emission factors in a : attributable emission factors in a ind at the first copy of this tool if this sub-installation covering the following the followi	ation, CL . (G.I.1) rg aspects:	
	<u>The hierarchica</u> Description of t Description of t Detailed instru Sytem bounda Information on 1 As required by Am	I order has been followed? Further details on any deviation he methodology for determination Reference to external files, if re Iation: Iation: Inticument of the sub-installation he methodology applied ter VI, section 2(b), please describe the ew vich technical units are included, which processes are carried out, which products and outguts are attribut	from the hierarn	Fuel benchmark sub-install	ation, CL . (G.I.1) rg aspects:	
	<u>The hierarchica</u> Description of t Description of t Detailed instru Sytem bounda Information on 1 As required by Am	I order has been followed? Further details on any deviation he methodology for determination Reference to external files, if re Iation: Iation: Inticument of the sub-installation he methodology applied ter VI, section 2(b), please describe the ew vich technical units are included, which processes are carried out, which products and outguts are attribut	from the hierarn	by : attributable emission factors in a : attributable emission factors in a ind at the first copy of this tool at the first copy of this tool this sub-installation covering the following the f	ation, CL . (G.I.1) rg aspects:	
iii. 4 Fall-b (a) i.	The hierarchica	I order has been followed? Further details on any deviation me methodology for determination me methodology for determination Reference to external files, if re lation: tries of the sub-installation the methodology applied tex VI, section 2(b), phase describe the which processes are carried out, which input materials and fuels, and which products and outputs are attribut its already provided in sufficient detail	from the hierarn	by : attributable emission factors in a : attributable emission factors in a ind at the first copy of this tool at the first copy of this tool this sub-installation covering the following the f	ation, CL . (G.I.1) rg aspects:	
iii. 4 Fall-b (a) i. i.	The hierarchica	I order has been followed? Further details on any deviation me methodology for determination me methodology for determination Reference to external files, if re lation: ctions for data entries in this rises of the sub-installation the methodology applied tex VI, section 2(b), please describe the which process are carried out, which input materials and fuels, and which products and outputs are attribut is arready provided in sufficient detail tex remail files, if relevant	If om the hierard	by : attributable emission factors in a : attributable emission factors in a ind at the first copy of this tool at the first copy of this tool this sub-installation covering the following the f	ation, CL . (G.I.1) rg aspects:	
iii. 4 Fall-b (a) i. i.		I order has been followed? Further details on any deviation me methodology for determination me methodology for determination Reference to external files, if re lation: tries of the sub-installation the methodology applied tex VI, section 2(b), phase describe the which processes are carried out, which input materials and fuels, and which products and outputs are attribut its already provided in sufficient detail	If rom the hierarn	Fuel benchmark sub-install at the first copy of this tool of this sub-installation covering the following the foll	ation, CL . (G.I.1) rg aspects:	
iii. 4 Fall-b (a) i. i.	The hierarchica	I order has been followed? Further details on any deviation Further details on any deviation remethodology for determination Reference to external files, if re Iation: Interference to external files, if reference Iation: Interference Iation: Interference Iation: Interference Iation: Interference Iation: Iation:	If rom the hierarn	Fuel benchmark sub-install at the first copy of this tool of this sub-installation covering the following the foll	ation, CL . (G.I.1) rg aspects:	
(a) (a) (i) (b)	The hierarchica	I order has been followed? Further details on any deviation he methodology for determination he methodology for determination Reference to external files, if re lation: rites of the sub-installation he methodology applied ev.V, section 2(b), please describe the which technical units are included, which processes are carried out, which products and outputs are attribut is already provided in sufficient detail (ternal files, if relevant separate detailed flow diagram, complex sub-installations, please provide determination of annual activ	If rom the hierarn	Fuel benchmark sub-install at the first copy of this tool of this sub-installation covering the following the foll	ation, CL . (G.I.1) . section and proceed with the next p	Dints below.

		 the method used for the determination of the energy 			
			he methodology below.	Other data source (if	Other data source
<form></form>		1. Fuel input		applicable)	applicable)
			he 95% rule in Article 10(3) of the EAR is applied		
		· · · · · · · · · · · · · · · · · · ·			
Euclided on the methodology for lenging track of the products produced		4. Reference to external files, if relevant			
a. Description of the methodology, for keeping track of the products produced Data required for the determination of the benchmark improvement rate pursuant to Article 10a(2) of the Directive OBECUTY products over of the wide determination of the benchmark improvement rate pursuant to Article 10a(2) of the Directive OBECUTY products over of the wide determination of the benchmark improvement rate pursuant to Article 10a(2) of the Directive Reference to extermination and relevant frequents Reference to extermination, frequents Reference to extermin	ii. <u>The hiera</u>	rchical order has been followed?	If not, why?		
		Further details on any deviation from the	e hierarchy		
(c) Precisy attributable emissions For the specific purpose of the hills date collection, this suction should cover all date provided in section <i>G</i> _(<i>g</i>) in the "baseline date collection" template. (d) Fuel input to this sub-installation and relevant emission factor The specific purpose of the hills date collection, this section factor The specific purpose of the hills date collection, this section factor The specific purpose of the hills date collection, this section factor The specific purpose of the hills date collection, this section factor The specific purpose of the hills date collection, this section factor The specific purpose of the hills date collection, this section factor The specific purpose of the hills date collection, the specific purpose of the hills date collection of the hill date collection of the hills date collection date hills date collection date hills date collecti	iii. <u>Descripti</u>	on of the methodology for keeping track of the p	products produced		
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			mprovement rate pursuant to Artic	te 10a(2) of the Directive	
(d) Fuel input to this sub-installation and relevant emission factor // control to the septodic purpose of the NMR data collection, this section should cover all data provided in section C_(d) in the "baseline data collection" template. 1. Information on the methodology applied // Event			should cover all data provided in section G.(c) in the "baseline data collection" temp	late.
(d) Fuel input to this sub-installation and relevant emission factor // control to the septodic purpose of the NMR data collection, this section should cover all data provided in section C_(d) in the "baseline data collection" template. 1. Information on the methodology applied // Event					
(d) Fuel input to this sub-installation and relevant emission factor // control to the septodic purpose of the NMR data collection, this section should cover all data provided in section C_(d) in the "baseline data collection" template. 1. Information on the methodology applied // Event					
(d) Fuel input to this sub-installation and relevant emission factor // control to the septodic purpose of the NMR data collection, this section should cover all data provided in section C_(d) in the "baseline data collection" template. 1. Information on the methodology applied // Event					
(d) Fuel input to this sub-installation and relevant emission factor // control to the septodic purpose of the NMR data collection, this section should cover all data provided in section C_(d) in the "baseline data collection" template. 1. Information on the methodology applied // Event					
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	(d) Fuel inp	It to this sub-installation and relevant emiss	sion factor		
and describe further details in the description of the methodology bebw. Relevant? Data source Other data source (if opticable) Other data source opticable) 1. Fuel input 1. Fuel input from waste gases 1. Integrate opticable) 1. Fuel input from waste gases 1. Integrate opticable) 3. Net calorific value 1. Subte calorific value 1. Integrate opticable) 1. Integrate opticable) 6. Emission factor 1. Subte calorific value 1. Integrate opticable) 1. Integrate opticable) 7. Description of the methodology applied If not, why? If not, why? If not, why? 6. Massurable heat exported If not, why? If not, why? If not, why? i. Information on the methodology applied If not, why? If not, why? If not, why? ii. Information on the methodology applied If not, why? If not, why? If not, why? ii. Information on the methodology applied Other data source (if opticable) Other data source (if opticable) 1. Heat exported If not, why?		 ct below: the data source used for the quantifaction of the f the method used for the determination of net calo 	rific values and emission factors pursuant section	n 4.6 of Annex VII of the FAR.	
Relevant? Data source Other data source (if applicable) Other data source applicable) 1. Fuel input				rces. If even further sources are involved	l, please select the three main s
1. Fuel input applicable) applicable) 2. Net calorife value				Other data source (if	Other data source
			vant? Data source	applicable)	applicable)
6. Net calorific value 6. Emission factor 7. Description of the methodology applied Reference to external files, if relevant ii. The hierarchical order has been followed? Further details on any deviation from the hierarchy (e) Measurable heat exported For the specific purpose of the Nitk state collection, this section should cover all data provided in section G.(e) in the "baseline data collection" tempate. i. Are further measurable heat scolection, this section should cover all data provided in section G.(e) in the "baseline data collection" tempate. i. Information on the methodology applied 0 ther data source (if other data source (if applicable) 1. Heat exported 2. Net measurable heat flows 3. Description of the methodology applied Reference to external files, if relevant ii. The hierarchical order has been followed? fit not, why?					
Reference to external files, if relevant Reference to external files, if relevant Reference to external files, if relevant					
ii. The hierarchical order has been followed? If not, why? Further details on any deviation from the hierarchy (e) Measurable heat exported For the specific purpose of the Nilks data collection, this section should cover all data provided in section G.(e) in the "baseline data collection" template. i. Are further measurable heat flows relevant for this sub-installation? ii. Information on the methodology applied 0 Data source Other data source (if applicable) 1. Heat exported applicable) 2. Net measurable heat flows applicable 3. Description of the methodology applied applicable Reference to external files, if relevant If not, why? Further details on any deviation from the hierarchy ii. The hierarchical order has been followed? If not, why? Further details on any deviation from the hierarchy		5. Net calorific value			
ii. The hierarchical order has been followed? If not, why? Further details on any deviation from the hierarchy (e) Measurable heat exported For the specific purpose of the Nilks data collection, this section should cover all data provided in section G.(e) in the "baseline data collection" template. i. Are further measurable heat flows relevant for this sub-installation? ii. Information on the methodology applied 0 Data source Other data source (if applicable) 1. Heat exported applicable) 2. Net measurable heat flows applicable 3. Description of the methodology applied applicable Reference to external files, if relevant If not, why? Further details on any deviation from the hierarchy ii. The hierarchical order has been followed? If not, why? Further details on any deviation from the hierarchy		5. <u>Net calorific value</u> 6. <u>Emission factor</u>			
ii. The hierarchical order has been followed? If not, why? Further details on any deviation from the hierarchy (e) Measurable heat exported For the specific purpose of the Nilks data collection, this section should cover all data provided in section G.(e) in the "baseline data collection" template. i. Are further measurable heat flows relevant for this sub-installation? ii. Information on the methodology applied 0 Data source Other data source (if applicable) 1. Heat exported applicable) 2. Net measurable heat flows applicable 3. Description of the methodology applied applicable Reference to external files, if relevant If not, why? Further details on any deviation from the hierarchy ii. The hierarchical order has been followed? If not, why? Further details on any deviation from the hierarchy		5. <u>Net calorific value</u> 6. <u>Emission factor</u>			
ii. The hierarchical order has been followed? If not, why? Further details on any deviation from the hierarchy (e) Measurable heat exported For the specific purpose of the Nilks data collection, this section should cover all data provided in section G.(e) in the "baseline data collection" template. i. Are further measurable heat flows relevant for this sub-installation? ii. Information on the methodology applied 0 Data source Other data source (if applicable) 1. Heat exported applicable) 2. Net measurable heat flows applicable 3. Description of the methodology applied applicable Reference to external files, if relevant If not, why? Further details on any deviation from the hierarchy ii. The hierarchical order has been followed? If not, why? Further details on any deviation from the hierarchy		5. <u>Net calorific value</u> 6. <u>Emission factor</u>			
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Data source Other data source (if applicable) Other data source applicable) 1. Heat exported 2. Net measurable heat flows 3. Description of the methodology applied 3. Description of the methodology applied	(e) Measura	5. <u>Net calorific value 6. Emission factor 7. Description of the methodology applied Reference to external files, if relevant rchical order has been followed? Further details on any deviation from the ble heat exported </u>	a hierarchy		
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	(e) Measura For the sp i. <u>Are furth</u>	S. Net calorific value S. Net calorific value S. Emission factor S. Description of the methodology applied The second sec	b hierarchy should cover all data provided in section G.(e)		
3. Description of the methodology applied	(e) Measura For the sp i. <u>Are furth</u>	S. Net calorific value S. Net calorific value S. Emission factor S. Description of the methodology applied The second sec	should cover all data provided in section G.(e.	Other data source (if	Other data source
Reference to external files, if relevant ii. The hierarchical order has been followed? Further details on any deviation from the hierarchy	(e) Measura For the sp i. <u>Are furth</u>	S. Net calorific value S. Net calorific value S. Emission factor S. Emission factor S. Description of the methodology applied S. Description of the methodology applied S. Description of the methodology applied S. Description of the methodology Reference to external files, if relevant rehical order has been followed? Further details on any deviation from the Set of the NIMs data collection, this section a remeasurable heat flows relevant for this sub-ir on on the methodology applied	should cover all data provided in section G.(e.	Other data source (if	Other data source
ii. <u>The hierarchical order has been followed?</u> If not, why? Further details on any deviation from the hierarchy	(e) Measura For the sp i. <u>Are furth</u>	S. Net calorific value S. Net calorific value S. Emission factor Description of the methodology applied Comparison of the methodology applied Reference to external files, if relevant rehical order has been followed? Further details on any deviation from the comparison of the NIMs data collection, this section are remeasurable heat flows relevant for this sub-ir on on the methodology applied 1. Heat exported 2. Net measurable heat flows	should cover all data provided in section G.(e.	Other data source (if	Other data source
ii. <u>The hierarchical order has been followed?</u> If not, why? Further details on any deviation from the hierarchy	(e) Measura For the sp i. <u>Are furth</u>	S. Net calorific value S. Net calorific value S. Emission factor Description of the methodology applied Comparison of the methodology applied Reference to external files, if relevant rehical order has been followed? Further details on any deviation from the comparison of the NIMs data collection, this section are remeasurable heat flows relevant for this sub-ir on on the methodology applied 1. Heat exported 2. Net measurable heat flows	should cover all data provided in section G.(e.	Other data source (if	Other data source
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ii. <u>The hierarchical order has been followed?</u> If not, why? Further details on any deviation from the hierarchy	(e) Measura For the sp i. <u>Are furth</u>	S. Net calorific value S. Net calorific value S. Emission factor Description of the methodology applied Comparison of the methodology applied Reference to external files, if relevant rehical order has been followed? Further details on any deviation from the comparison of the NIMs data collection, this section are remeasurable heat flows relevant for this sub-ir on on the methodology applied 1. Heat exported 2. Net measurable heat flows	should cover all data provided in section G.(e.	Other data source (if	Other data source
ii. <u>The hierarchical order has been followed?</u> If not, why? Further details on any deviation from the hierarchy	(e) Measura For the sp i. <u>Are furth</u>	S. Net calorific value S. Net calorific value S. Emission factor Description of the methodology applied Comparison of the methodology applied Reference to external files, if relevant rehical order has been followed? Further details on any deviation from the comparison of the NIMs data collection, this section are remeasurable heat flows relevant for this sub-ir on on the methodology applied 1. Heat exported 2. Net measurable heat flows	should cover all data provided in section G.(e.	Other data source (if	Other data source
Further details on any deviation from the hierarchy	(e) Measura For the sp i. <u>Are furth</u>	S. Net calorific value S. Net calorific value S. Emission factor Description of the methodology applied Comparison of the methodology applied Reference to external files, if relevant rohical order has been followed? Further details on any deviation from the Eventher details on any deviation from the Section of the NIMs data collection, this section ar measurable heat flows relevant for this sub-ir on on the methodology applied S. Net measurable heat flows S. Description of the methodology applied	should cover all data provided in section G.(e.	Other data source (if	Other data source
	(e) Measura For the sp i. Are furth ii. Informati	S. Net calorific value S. Net calorific value S. Emission factor S. Description of the methodology applied S. Description of the methodology applied Reference to external files, if relevant rehical order has been followed? Further details on any deviation from the S. Description of the NMK data collection, this section are measurable heat flows relevant for this sub-ir on on the methodology applied S. Net measurable heat flows S. Description of the methodology applied S. Net measurable heat flows S. Description of the methodology applied Reference to external files, if relevant	should cover all data provided in section G.(e. nstallation? Data source	Other data source (if	Other data source
iii. Description of the methodology for determination of the relevant attributable emission factors in accordance with sections 10.1.2. and 10.1.3. of Annex V.	(e) Measura For the sp i. Are furth ii. Informati	S. Net calorific value S. Net calorific value S. Emission factor S. Description of the methodology applied S. Description of the methodology applied Reference to external files, if relevant rehical order has been followed? Further details on any deviation from the S. Description of the Mith data collection, this section are remeasurable heat flows relevant for this sub-ir on on the methodology applied S. Net measurable heat flows S. Description of the methodology applied Reference to external files, if relevant rchical order has been followed?	shierarchy should cover all data provided in section G.(e nstallation? Data source Data source If not, why?	Other data source (if	Other data source
iii. Description of the methodology for determination of the relevant attributable emission factors in accordance with sections 10.1.2. and 10.1.3. of Annex V	(e) Measura For the sp i. Are furth ii. Informati	S. Net calorific value S. Net calorific value S. Emission factor S. Description of the methodology applied S. Description of the methodology applied Reference to external files, if relevant rehical order has been followed? Further details on any deviation from the S. Description of the Mith data collection, this section are remeasurable heat flows relevant for this sub-ir on on the methodology applied S. Net measurable heat flows S. Description of the methodology applied Reference to external files, if relevant rchical order has been followed?	shierarchy should cover all data provided in section G.(e nstallation? Data source Data source If not, why?	Other data source (if	Other data source
	(e) Measura For the sp i. Are furth ii. Informati ii. <u>Informati</u>	S. Net calorific value S. Net calorific value S. Emission factor Description of the methodology applied Comparison of the methodology applied Reference to external files, if relevant rohical order has been followed? Further details on any deviation from the comparison of the NIMs data collection, this section are reasurable heat flows relevant for this sub-ir on on the methodology applied S. Net measurable heat flows S. Description of the methodology applied S. Net measurable heat flows S. Description of the methodology applied Reference to external files, if relevant rohical order has been followed? Further details on any deviation from the Comparison of the methodology applied	e hierarchy should cover all date provided in section G.(e nstallation? Data source Data source If not, why? e hierarchy	Other data source (if applicable)	Other data source applicable)
	(e) Measura For the sp i. Are furth ii. Informati ii. <u>Informati</u>	S. Net calorific value S. Net calorific value S. Emission factor Description of the methodology applied Comparison of the methodology applied Reference to external files, if relevant rohical order has been followed? Further details on any deviation from the comparison of the NIMs data collection, this section are reasurable heat flows relevant for this sub-ir on on the methodology applied S. Net measurable heat flows S. Description of the methodology applied S. Net measurable heat flows S. Description of the methodology applied Reference to external files, if relevant rohical order has been followed? Further details on any deviation from the Comparison of the methodology applied	e hierarchy should cover all date provided in section G.(e nstallation? Data source Data source If not, why? e hierarchy	Other data source (if applicable)	Other data source applicable)
	(e) Measura For the sp i. Are furth ii. Informati ii. <u>Informati</u>	S. Net calorific value S. Net calorific value S. Emission factor Description of the methodology applied Comparison of the methodology applied Reference to external files, if relevant rohical order has been followed? Further details on any deviation from the comparison of the NIMs data collection, this section are reasurable heat flows relevant for this sub-ir on on the methodology applied S. Net measurable heat flows S. Description of the methodology applied S. Net measurable heat flows S. Description of the methodology applied Reference to external files, if relevant rohical order has been followed? Further details on any deviation from the Comparison of the methodology applied	e hierarchy should cover all date provided in section G.(e nstallation? Data source Data source If not, why? e hierarchy	Other data source (if applicable)	Other data source applicable)
	(e) Measura For the sp i. Are furth ii. Informati ii. <u>Informati</u>	S. Net calorific value S. Net calorific value S. Emission factor Description of the methodology applied Comparison of the methodology applied Reference to external files, if relevant rohical order has been followed? Further details on any deviation from the comparison of the NIMs data collection, this section are reasurable heat flows relevant for this sub-ir on on the methodology applied S. Net measurable heat flows S. Description of the methodology applied S. Net measurable heat flows S. Description of the methodology applied Reference to external files, if relevant rohical order has been followed? Further details on any deviation from the Comparison of the methodology applied	e hierarchy should cover all date provided in section G.(e nstallation? Data source Data source If not, why? e hierarchy	Other data source (if applicable)	Other data source applicable)
Reference to external files, if relevant	(e) Measura For the sp i. Are furth ii. Informati ii. <u>Informati</u>	S. Net calorific value S. Net calorific value S. Emission factor Description of the methodology applied Comparison of the methodology applied Reference to external files, if relevant rohical order has been followed? Further details on any deviation from the comparison of the NIMs data collection, this section are reasurable heat flows relevant for this sub-ir on on the methodology applied S. Net measurable heat flows S. Description of the methodology applied S. Net measurable heat flows S. Description of the methodology applied Reference to external files, if relevant rohical order has been followed? Further details on any deviation from the Comparison of the methodology applied	e hierarchy should cover all date provided in section G.(e nstallation? Data source Data source If not, why? e hierarchy	Other data source (if applicable)	Other data source applicable)

5 Fall-b	back sub-instal	lation:	Fuel benchmark sub-install	ation, non-CL	
	Detailed instru	ictions for data entries in this tool can be fou	and at the first conv of this tool	L (G 14)	
(.)			ind at the first copy of this tool	<u>. (6.1.1)</u>	
(a)	-	ries of the sub-installation			
i		the methodology applied is already provided in sufficient detail in section C.II, pl	ease just include reference here to this	s section and proceed with the next p	pints below.
		······································	,,		
ii	Reference to ex	<u>kternal files, if relevant</u>			
		separate detailed flow diagram, if relevant			
(b)	Method for the	e determination of annual activity levels urpose of the NIMs data collection, this section should c	over all data provided in section G.(a)	in the "baseline data collection" temp	late.
ii		the methodology applied			
"		and methodology applied	Data source	Other data source (if	Other data source (if
			Data source	applicable)	applicable)
		Fuel input Energy content			
		Description of the methodology applied	-	•	•
	-	Please describe in particular any assumptions if the 95% n	ule in Article 10(3) of the FAR is applied.		
			19		
		Reference to external files, if relevant	<u> </u>		
ii	. The hierarchica	Il order has been followed?	If not, why?		
		Further details on any deviation from the hierar	chy		
iii	. Description of t	he methodology for keeping track of the products	s produced		
			•		
Data	required for th	e determination of the benchmark improv	ement rate pursuant to Articl	le 102(2) of the Directive	
			ement rate pursuant to Artici		
(c)		Itable emissions urpose of the NIMs data collection, this section should c	over all data provided in section G.(c)	in the "baseline data collection" temp	late.
				-	
				1	
		Reference to external files, if relevant		L	
(d)	Fuel input to t	his sub-installation and relevant emission fa	ctor		
		urpose of the NIMs data collection, this section should c the methodology applied	over all data provided in section G.(d)	in the "baseline data collection" temp	late.
i	Please select below				
		Relevant?	Data source	Other data source (if	Other data source (if
	1	Fuel input		applicable)	applicable)
		Net calorific value			
	3.	Weighted emission factor			
		Fuel input from waste gases			
		Net calorific value Emission factor			
		Description of the methodology applied		•	
	7.	Cosserption of the methodology applied			
		Reference to external files, if relevant			
ii	. The hierarchica	I order has been followed?	If not, why?		
		Further details on any deviation from the hierar	chy		
(e)	Measurable he		ever all data provident in the state	in the Theorem - data and the T	lata
		urpose of the NIMs data collection, this section should c asurable heat flows relevant for this sub-installati		in the "baseline data collection" temp	late.
ii	. Information on t	the methodology applied			
		Relevant?	Data source	Other data source (if	Other data source (if
	4	Heat exported		applicable)	applicable)
		Net measurable heat flows			
		Description of the methodology applied			
	0.				
		Reference to external files, if relevant			
ii	. The hierarchica	I order has been followed?	If not, why?		
		Further details on any deviation from the hierar	chy		



6 Fall-b	ack sub-installation:	Process emissions sub-inst	allation, CL	
	Detailed instructions for data entries in this tool can be for	und at the first copy of this tool	<u>. (G.I.1)</u>	
(a)	Sytem boundaries of the sub-installation			
i.	Information on the methodology applied			
	If this information is already provided in sufficient detail in section C.II, p	lease just include reference here to this	section and proceed with the next po	ints below.
	Reference to external files, if relevant			
	Reference to a separate detailed flow diagram, if relevant			
(b)	Method for the determination of annual activity levels For the specific purpose of the NIMs data collection, this section should	cover all data provided in section G (a)	in the "baceline data collection" tomo	ato
	Information on the methodology applied	cover an data provided in section G.(a)	in the baseline data conection temp	ale.
1.				
	Reference to external files, if relevant			
п.	Description of the methodology for keeping track of the produc	is produced		

7 Fall-b	ack sub-installation:	Process emissions sub-inst	tallation. non-CL			
	Detailed instructions for data entries in this tool can be fou	ind at the first copy of this tool	. (G.I.1)			
(a)	Sytem boundaries of the sub-installation					
	i, Information on the methodology applied					
	If this information is already provided in sufficient detail in section C.II, please just include reference here to this section and proceed with the next points below.					
ii.	Reference to external files, if relevant					
iii.	Reference to a separate detailed flow diagram, if relevant					
	Mathead for the determination of enough activity levels					
(b)	Method for the determination of annual activity levels For the specific purpose of the NIMs data collection, this section should c	over all data provided in section G.(a)	in the "baseline data collection" templ	late.		
i	Information on the methodology applied					
	Reference to external files, if relevant					
ii.	Description of the methodology for keeping track of the products	s produced				

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

Introduction to this sheet

All descriptions of the methods used in subsequent sections below to quantify parameters to be monitored and reported shall include, where relevant:

- calculation steps
- data sources
- calculation formulae
- relevant calculation factors including unit of measurement
- horizontal and vertical checks for corroborating data
- procedures underpinning sampling plans
- measurement equipment used with reference to the relevant diagram and a description how they are installed and maintained
- a list of laboratories engaged in carrying out relevant analytical procedures

The description shall include the result of a simplified uncertainty assessment in accordance with Article 7(2), where required. For each relevant calculation formula the plan shall contain one example using real data.

CWT (Refinery products)

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

(a) Relevance of this tool in your installation:

This message is automatically generated based on your inputs in sheet "C_InstallationDescription", section C.I.

(b) CWT througput data

Please select below the data source used for the quantities of the supplemental feed pursuant to section 4.4 of Annex VII of the FAR.

As more than one of the data sources might be involved, the template provides for up to three sources. If even further sources are involved, please select the three main sources and describe further details in the description of the methodology below.

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:
 - F Net fresh feed
 - *R* Reactor feed (includes recycle)
 - P Product feed
 - SG Synthesis gas production for POX units

CWT function	Basis (kt/a)	CWT factor	Data source	Other data source (if applicable)	Other data source (if applicable)
Atmospheric Crude Distillation	F	1,00			
Vacuum Distillation	F	0,85			
Solvent Deasphalting	F	2,45			
Visbreaking	F	1,40			
Thermal Cracking	F	2,70			

Delayed Coking	F	2,20		
Fluid Coking	F	7,60		
Flexicoking	F	16,60		
Coke Calcining	P	12,75		
Fluid Catalytic Cracking	F	5,50		
Other Catalytic Cracking	F	4,10		
Distillate / Gasoil	F	2,85		
Hydrocracking		2,00		
Residual Hydrocracking	F	3,75		
Naphtha/Gasoline	F	1,10		
Hydrotreating	I	1,10		
Kerosene/ Diesel Hydrotreating	F	0,90		
Refosence Dieser Hydrotreating	1	0,30		
Residual Hydrotreating	F	1,55		
VGO Hydrotreating	F	0,90		
Hydrogen Production	P	300,00		
Catalytic Reforming	F	4,95		
Alkylation	P	7,25		
C4 Isomerisation	R	3,25		
C5/C6 Isomerisation	R	2,85		
Oxygenate Production	P	5,60		
Propylene Production	F	3,45		
Asphalt Manufacture	P	2,10		
Polymer-Modified Asphalt	P	0,55		
Blending	-	0,00		
Sulphur Recovery	Р	18,60		
Aromatic Solvent Extraction	F	5,25		
Hydrodealkylation	F	2,45		
TDP/ TDA	F	1,85		
Cyclohexane production	Р	3,00		
Xylene Isomerisation	F	1,85		
Paraxylene production	P	6,40		
Metaxylene production	P	11,10		
Phtalic anhydride production	P	14,40		
Maleic anhydride production	P	20,80		
Ethylbenzene production	P	1,55		
Cumene production	P	5,00		
Phenol production	P	1,15		
Lube solvent extraction	F	2,10		
Lube solvent dewaxing	F	4,55		
Catalytic Wax Isomerisation	F	1,60		
Lube Hydrocracker	F	2,50		
Wax Deoiling	P	12,00		
Lube/Wax Hydrotreating	F	1,15		
Easo/ Wax Hydrotteating	1	1,15		

Solvent Hydrotreating	F	1,25		
Solvent Fractionation	F	0,90		
Mol sieve for C10+ paraffins	Р	1,85		
Partial Oxidation of Residual	SG	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		
Air Separation	P (MNm3 O2)	8,80		
Fractionation of purchased	F	1,00		
NGL				
Flue gas treatment	F (MNm3)	0,10		
Treatment and Compression of	kW	0,15		
Fuel Gas for Sales				
Seawater Desalination	Р	1,15		

(c) Further description

	Reference to external files, if relevant	
d)	The hierarchical order has been followed? If not, why?	
	Further details on any deviation from the hierarchy	

Lime

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

(a) Relevance of this tool in your installation:

This message is automatically generated based on your inputs in sheet "C_InstallationDescription", section C.I.

(b) Information on the methodology applied

Please select below the data source used for the properties of lime (CaO and MgO content) pursuant to section 4.6 of Annex VII of the FAR. As more than one of the data sources might be involved, the template provides for up to three sources. If even further sources are involved, please select the three main sources and describe further details in the description of the methodology below.

Data source

Other data source (if applicable)

Other data source (if applicable)

a. Composition data

(c) Further description

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\ - /	•			
	Reference to external files, if relevant			
<i>.</i>		life of sub-0		
(d)	The hierarchical order has been followed?	If not, why?		
	Further details on any deviation from the hierarc	hy		
Doli	me			
Tool	for calculating the historical activity levels for Dolime	sub-installations		
(a)	Relevance of this tool in your installation:			
()	This message is automatically generated based on your inputs in sheet "C_Insta	llationDescription", section C.I.		
(b)	Information on the methodology applied			
	Please select below the data source used for the properties of lime (CaO and Mg			
	As more than one of the data sources might be involved, the template provides for details in the description of the methodology below.	or up to three sources. If even further sou	irces are involved, please select the three	main sources and describe further
		Data source	Other data source (if	Other data source (if
	Composition data		applicable)	applicable)
(-)				
(C)	Further description			
	Reference to external files, if relevant			
(d)	The hierarchical order has been followed?	If not, why?		
()	Further details on any deviation from the hierarc			

Ste	Steam cracking							
Тос	ool for calculating the historical activity levels for steam cracking sub-in	for calculating the historical activity levels for steam cracking sub-installations						
(a)	(a) Relevance of this tool in your installation:							
	This message is automatically generated based on your inputs in sheet "C_InstallationDescription", s	ection C.I.						
(b)		Supplemental feed data: Please select below the data source used for the quantities of the supplemental feed pursuant to section 4.4 of Annex VII of the FAR. As more than one of the data sources might be involved, the template provides for up to three sources. If even further sources are involved, please select the three main sources and describe further						
	details in the description of the methodology below.							
	Datas	ource	Other data source (if applicable)	Other data source (if applicable)				
	Hydrogen, ethylene and other HVC							
(C)	(c) Further description							
	Reference to external files, if relevant							
(d)		If not, why?						
	Further details on any deviation from the hierarchy							

V CWT (Aromatics)

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

(a) Relevance of this tool in your installation:

This message is automatically generated based on your inputs in sheet "C_InstallationDescription", section C.I.

(b) CWT througput data

Please select below the data source used for the quantities of the supplemental feed pursuant to section 4.4 of Annex VII of the FAR.

As more than one of the data sources might be involved, the template provides for up to three sources. If even further sources are involved, please select the three main sources and describe further details in the description of the methodology below.

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:

F Net fresh feed

P Product feed

CWT function	Basis (kt/a)	CWT factor	Data source	Other data source (if applicable)	Other data source (if applicable)
Naphtha/Gasoline Hydrotreater	F	1,10			
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) Further description

Reference to external files, if relevant		
) The hierarchical order has been followed?	If not, why?	
Further details on any deviation from the	e hierarchy	

VI Hydrogen

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

(a) Relevance of this tool in your installation:

This message is automatically generated based on your inputs in sheet "C_InstallationDescription", section C.I.

(b) Hydrogen volume fraction VF(H2)

Please select below the data source used for the hydrogen volume fraction pursuant to section 4.6 of Annex VII of the FAR.

As more than one of the data sources might be involved, the template provides for up to three sources. If even further sources are involved, please select the three main sources and describe further details in the description of the methodology below.

	Data source	Other data source (if applicable)	Other data source (if applicable)
Total hydrogen production			
Volume fraction of hydrogen			

(c) Further description

	Reference to external files, if relevant	
d)	The hierarchical order has been followed? If not, why?	
	Further details on any deviation from the hierarchy	

VII Synthesis gas

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

(a) Relevance of this tool in your installation:

This message is automatically generated based on your inputs in sheet "C_InstallationDescription", section C.I.

(b) Hydrogen volume fraction VF(H2)

Please select below the data source used for the hydrogen volume fraction pursuant to section 4.6 of Annex VII of the FAR.

As more than one of the data sources might be involved, the template provides for up to three sources. If even further sources are involved, please select the three main sources and describe further details in the description of the methodology below.

	Data source	Other data source (if applicable)	Other data source (if applicable)
Total synthesis gas production			
Composition data			

(c) Further description

	Reference to external files, if relevant	
(d)	The hierarchical order has been followed?	
()	Further details on any deviation from the hierarchy	

VIII Ethylene oxide / glycols

Tool for calculating the historical activity levels for ethylene oxide / ethylene glycols sub-installations

(a) Relevance of this tool in your installation:

This message is automatically generated based on your inputs in sheet "C_InstallationDescription", section C.I.

(b) Production data of Ethylene oxide and glycols:

Please select below the data source used for the quantities of the supplemental feed pursuant to section 4.4 of Annex VII of the FAR.

As more than one of the data sources might be involved, the template provides for up to three sources. If even further sources are involved, please select the three main sources and describe further details in the description of the methodology below.

	CF(EOE)	Data source	Other data source (if applicable)	Other data source (if applicable)
Ethylene oxide	1,000			
Monoethylene glycol	0,710			
Diethylene glycol	0,830			
Triethylene glycol	0,880			

(c) Further description

(d)

Reference to external files, if relevant		
The hierarchical order has been followed?	If not, why?	
Further details on any deviation from the biard		

Further details on any deviation from the hierarchy

IX Vinyl chloride monomer (VCM)

Vinyl chloride monomer tool: Preliminary allocation (Article 31 of the FAR)

(a) Relevance of this tool in your installation:

This message is automatically generated based on your inputs in sheet "C_InstallationDescription", section C.I.

(b) Heat consumption from H2 combustion

Please select below the data source used for the energy flows pursuant to section 4.5 of Annex VII of the FAR. As more than one of the data sources might be involved, the template provides for up to three sources. If even further sources are involved, please select the three main sources and describe further details in the description of the methodology below.

Data source

Other data source (if applicable)

Other data source (if applicable)

Quantification of heat from H2

(c) Further description

	Reference to external files, if relevant	
(d)	The hierarchical order has been followed?	If not, why?
	Further details on any deviation from the hierarchy	

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

To be defined by the Member State

	Navigation area:	Table of contents		
J. Comments	Top of sheet			

J. Sheet "Comments" - COMMENTS AND FURTHER INFORMATION

Documents supporting this report

Please list here all relevant documents which are submitted together with this report

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

File name/Reference	Document description

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