MONITORING METHODOLOGY PLAN for Phase 4 of the EU ETS

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

legally responsible person

GUIDELINES AND CONDITIONS

General Information on this Template

- 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/2003/87/2018-04-04
- 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

- 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.
- 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
- 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

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.

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:

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.
FII1nl	· ·

Colour codes and fonts:

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.

- 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).
- 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.
- 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.
- 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 uthority.

Member State specific information:

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

Detail address to be provided by the Member State

Information sources:

EU Websites:

EU-Legislation: http://eur-lex.europa.eu/en/index.htm

EU ETS general: http://ec.europa.eu/clima/policies/ets/index_en.htm

Other Websites:

<to be provided by Member State>

Helpdesk:
<to be="" by="" if="" member="" provided="" relevant="" state,=""></to>
Further guidance as provided by the Member State:

Monitoring Methodology Plan versions

l 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 date		Chapters where modifications have been made. Brief explanation of changes
1	25.01.2019	25.01.2019	

B. INSTALLATION DATA

I Identification of the Installation

1 Consent to use the data contained in this file

The information contained in this file will be used by the competent authority for determining the free allocation pursuant to Article 10a of

the E the E purs	EU ETS Directive, and by the European Commission in par Luant to Article 11(1) of the E		ng benchmark values. Furthe or the purpose of scrutinizing	rmore this information might be	e notified to
Pleas	se confirm consent to use ir.	formation contained in this monito	oring methodology plan.		
2 Aba	ut the operator				
	Operator Name	_			
(a) (b)	Member State	-			
(a) (c)	Emissions trading permit	number	member state/CA prefix		
(d)	Competent Authority	[
	ut your installation	_			
(a)	•	nd the site on which it is located:			
i	i. Installation name: ii. Site name: ii. Registry ID of the installatior This is usually a natural number, i.e For example, if the Registry ID is B v. Unique ID:	n (as in NIMs): e. a code different from the Permit identifier use IED00000000123456, please enter here 12345		plected under (c), this Registry ID	
	Include any Member State specific	guidance on naming of installations.			
(b)	Address / location of the s	ite of the installation:			
i ii iv V	i. Address Line 1: ii. Address Line 2: iii. Address Line 2: iii. City: v. State/Province/Region: v. Postcode/ZIP: ii. Country: Include any Member State specific	guidance regarding grid references.			
4 Conf	tact details				
	Who can we contact abou	t your monitoring methodology pla o we can contact directly with any questions ab e operator.		n. The persons you name should have	
(a)	Primary contact:	Title: First Name: Surname: Job title: Organisation name (if different Telephone number: Email address:	t from the operator):		
(b)	Alternative contact:	Title: First Name: Surname: Job title: Organisation name (if different Telephone number: Email address:	t from the operator):		

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.	Product type	CL exposed?
1		N.A.
2		N.A.
3		N.A.
4		N.A.
5		N.A.
6		N.A.
7		N.A.
8		N.A.
9		N.A.
10		N.A.

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 D	escri			

(a)	Description	of the	installation	including	its main	processes
-----	-------------	--------	--------------	-----------	----------	-----------

If the description pursuant to section 1(c) of Annex VI of the FAR exc	eds the space provided here, please refer to an attached document file (and then please list exact file name here)

(b) Reference to the latest approved monitoring plan:

nce with the M&R Regulation where all emission sources are listed as required by section 1(c) of Annex VI of the FAR).

(c) Reference to a flow diagram:

Reference to a flow diagram:

Please provide a flow diagram in accordance with section 1(d) of Annex VI of the FAR, which contains at least the following information and provide a reference (filename, date) and attach a copy when submitting this monitoring methodology plan to your competent authority.

- The technical elements of the installation, identifying emissions sources as well as heat producing and consuming units
- All energy and material flows, in particular the source streams, emission sources, measurable and non-measurable heat flows, electricity flows where relevant, and waste gases
- The points of measurement and metering devices
- Boundaries of the sub-installations, including the split between sub-installation serving sectors deemed to be exposed to a significant risk of carbon leakage and sub-installations serving ther sectors, based on NACE rev. 2 or PRODCOM 2010

In more complex cases, more detailed flow diagrams should be shown for each relevant sub-installation under point (a).iii. of sheets F and G.

Please also include a (smaller) picture of that flow diagram in th	e box below.		

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

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 use in installation (CCU)
- Intermediate products covered by product benchmarks (Sections 1.6 and 3.1(I) of Annex IV of the FAR)

- 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	(email) address	phone number
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

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

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 subinstallation. If this is not the case, please proceed with section II below.

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

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

	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							
P10							
P12							
P13							
P14							
P15							
	assign parts of installations and their emissions to the resp						
As required by a This description If relevant meth	Annex VI, section 2(d) of the FAR, please describe for each sub-installation in should in particular take into account the provisions in section 3.2.1 of Anne ods are described in sufficient detail under point (a) of sheets F and G of all r in is provided in external files, please provide a reference to those below.	dentified under (a) above a x VII of the FAR. elevant sub-installations,	the methods to assign		ons and their emissic	ns to the	
As required by a This description If relevant meth	Annex VI, section 2(d) of the FAR, please describe for each sub-installation in should in particular take into account the provisions in section 3.2.1 of Anne ods are described in sufficient detail under point (a) of sheets F and G of all r in is provided in external files, please provide a reference to those below.	dentified under (a) above a x VII of the FAR.	the methods to assign		ons and their emissic	ns to the	

II Procedures

(b)

(c)

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

Reference to external files, if relevant

It is possible to refer to an attached do	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 ensure 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 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	

	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)	
It is possible to refer to an attached do	written procedures of the control activities pursuant to Art. 11(2), including diagrams where appropriate for clarification current file (then please list exact file name here), if the description exceeds the space provided here.
It is possible to refer to an attached dod Title of procedure	
It is possible to refer to an attached dod Title of procedure Reference for procedure	
It is possible to refer to an attached dod Title of procedure	
It is possible to refer to an attached dod Title of procedure Reference for procedure	
It is possible to refer to an attached doc Title of procedure Reference for procedure Diagram reference (where applicable)	
It is possible to refer to an attached doc Title of procedure Reference for procedure Diagram reference (where applicable)	
It is possible to refer to an attached dod Title of procedure Reference for procedure Diagram reference (where applicable) Brief description of procedure	

(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

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

(d)

Energy Flows

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

- 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.

Fuel input

(a) Fuel input flows

seific purpose of the NIMs data collection, this section should cover all data provided in section E.I in the "baseline data collection" template

i. Information on the methodology applied

- the data source used for the quantities pursuant to section 4.4 of Annex VII of the FAR.
- the method used for the determination of the energy 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	Otner data source (if applicable)	applicable)
1. Fuel input			
Energy content			
Description of the methodology applied			

4. Reference to external files, if relevant

ii. The hierarchical order has been followed?

If not, why?

The hierarchical order has been followed?

The hierarchy are there means that the data source with the highest rank within the hierarchy set out in section 4 of Annex VII of the FAR has been used above. If this is not the case, pix "FALSE" and select the reason for that from the drop-down list and describe further details below. Reasons for deviation can be the following:

- Uncertainty assessment: other data sources lead to lower uncertainty according to the simplified uncertainty assessment pursuant to Article 7(2) of the FAR.
- Technical infeasiblity: the use of better data sources is technical infeasible.
- Unreasonable costs: the use of better data sources would incur unreasonable costs

Further details on any deviation from the hierarchy

II Measurable heat at installation level

Measurable heat flows (import, export, consumption and production)

provided in section E.II in the "baseline data colle

i. Are measurable heat flows relevant for the installation?

ii. Information on the methodology applied

- 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.

For example, if heat is imported and consumed within the installation, the imported flows might be measured by instruments subject to national legal metrological control (section 4.5(a)), while the consumed amounts might be measured by other meters under the operator's control (section 4.5(b)).

- the method used for the determination of net amounts pursuant to section 7.2 of Annex VII of the FAR.

	Data source	Other data source (if applicable)	Other data source (if applicable)
Quantification of measurable heat flows			
Net measurable heat flows			·
Li Hot mododiadio nodi 11040			

3. Description of the methodology applied

4. Reference	to external file, if relevant		
ii. The hierarchical order has	been followed?	If not, why?	

The hierarchical order has been followed?

Selecting "TRUE" here means that the data source with the highest rank within the hierarchy set out in section 4 of Annex VII of the FAR has been used above. If this is not the case, please select "FALSE" and select the reason for that from the drop-down list and describe further details below. Reasons for deviation can be the following:

- Uncertainty assessment: other data sources lead to lower uncertainty according to the simplified uncertainty assessment pursuant to Article 7(2) of the FAR.
- Technical infeasibility: the use of better data sources is technical infeasible.
- Unreasonable costs: the use of better data sources would incur unreasonable costs

Further details on any deviation from the hierarchy

III Waste gas balance at installation level

Waste gas flows (import, export, consumption and production)
For the specific purpose of the NIMs data collection, this section should cover all data provided in section E.III in the "baseline data collection" templa

i. Are waste gas flows relevant for the installation?

ii. Information on the methodology applied

v for all waste gas flows: the data source used for the quantities 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.

- the method used for the determination of energy content pursuant to section 4.6 of Annex VII of the FAR.

,	Data source	Other data source (if applicable)	Other data source (if applicable)
Quantification of waste gas flows			
2. Energy content of waste gases			

3. Description of the methodology applied

	Reference to external file, if relevant			
	rarchical order has been followed? "TRUE" here means that the data source with the highest rank within	If not, why?	and I'll of the EAD has been used above	If this is not the case, places
	and select the reason for that from the drop-down list and describe fu			II tills is flot tile case, please
	- Uncertainty assessment: other data sources lead to lower		ncertainty assessment pursuant to Article	7(2) of the FAR.
	Technical infeasibility: the use of better data sources is tech Unreasonable costs; the use of better data sources would			
	Further details on any deviation from the hierard			
	Further details on any deviation from the hierard	cny		
Electricite	Chartellation lavel			
Electricity a	t installation level			
	ity flows (import, export, consumption and product			
	pecific purpose of the NIMs data collection, this section should co icity produced within the installation?	over all data provided in section E.IV i	n the "baseline data collection" templa	ite.
i. is electi	icity produced within the installation:			
ii Informat	rion on the methodology applied			
	ion on the methodology applied lect below the data source used for the energy flows pursuant to sec	tion 4.5 of Annex VII of the FAR.		
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Please se As more to	lect below the data source used for the energy flows pursuant to sec			
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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.

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:

- descriptions of the methods used in subsequent sections to calculation steps data sources calculation formulae relevant calculation factors including unit of measurement horizontal and vertical checks for corroborating data
- noncolinal and vertical criecus 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.

	ch relevant calcul				
Prod	luct BM sub	-installations			
1 Sub-i		ith product benchmark:			
		product benchmark sub-installation is displayed automatically	based in the inputs in sheet "C_Installation	onDescription".	
(a) i.	. Information or	daries of the sub-installation the methodology applied nnex VI, section 2(b), please describe the sytem boundaries o - which technical units are included, - which processes are carried out,	f this sub-installation covering the following	ing aspects:	
		- which input materials and fuels, and			
	Please also desc	 which products and outputs are attributed. ribe the import or export of any intermediate products covered 	by product benchmarks (Sections 1.6 a	and 3.1(I) of Annex IV of the FAR), and re	espective amounts are quantified.
	M Abia informati	nn is already may ided in auditainst detail in accion C. II. su	anna livat lualivila vafavanna hava ta thir	a anation and meaned with the part m	sinta halau
	ii this informati	nn is already provided in sufficient detail in section C.II, ple	ase just include reference here to this	s secuon and proceed with the next po	mits below.
ii.	. Reference to	external files, if relevant			
iii.		a separate detailed flow diagram, if relevant e complex sub-installation, please provide a detailed flow diagra	am if not included under it above		
	in case or a more		am, il not ilicidaca ander i. above.		
(b)	Method for t	ne determination of annual production (=activit	ty) levels		
i.		the methodology applied	ever all data provided in eastion E (a)	in the "bessline data collection" town	242
	Please select be	purpose of the NIMs data collection, this section should co low:	over all data provided in section F.(a) i	in the "baseline data collection" tempi	ate.
		- the data source used for the quantities pursuant to section	4.4 of Annex VII of the FAR.		
		As more than one of the data sources might be involved, the and describe further details in the description of the method		rces. If even further sources are involved	, please select the three main sou
		the method used for the determination of annual quantities		e FAR.	
			Ì	Other data source (if	Other data source (if
			Data source	applicable)	applicable)
		Quantities of products			
		2. Annual quantities of products			
		 Special reporting requirements: Some product benchmarks require special information to be 	a sanastad (a.g. CM/Tuakiaa). If salayanti	t an automatically generated massage y	ill appear have
		Description of the methodology applied	e reported (e.g. CW r values). Il relevant	i, an automatically generated message w	ш арреаг пеге.
		Becompain of the methodology applied			
		Please consider the definition and system boundaries as se	et out in Annex I of the FAR and the rele	vant section in Guidance Document 9.	
		If the installation did not operate in all years, please provide	evidence, as appropriate, and describe	how the start of normal operation was d	etermined, if relevant.
		Reference to external files, if relevant			
ii	The hierarchic	cal order has been followed?	If not, why?		
	Selecting "TRUE	here means that the data source with the highest rank within	the hierarchy set out in section 4 of Ann		If this is not the case, please sele
	"FALSE" and sei	ect the reason for that from the drop-down list and describe fu			
		 Uncertainty assessment: other data sources lead to lower of Technical infeasibility: the use of better data sources is technical uncertainty. Unreasonable costs: the use of better data sources would a source of the technical uncertainty. 	nnical infeasible.	icertainty assessment pursuant to Article	7(2) of the FAR.
		Further details on any deviation from the hierarc	chy		
	Description of	the methodology for keeping track of the products	produced		
111.		de the methodology on how relevant PRODCOM codes are tra		nnex VII (FAR).	
		We also also be a large of the			
(c)		ility of fuel and electricity: purpose of the NIMs data collection, this section should co	over all data provided in section F (c)	in the "haseline data collection" temp	ate
` ,		tomatically generated message will appear here demanding th			
. ,	If relevant, an au			the cub installation's system boundaries	
.,		cle 21 of the FAR the the "relevant electricity consumption" nee	eds to be described taking into account t	ne sub-installation's system boundaries t	as listed in Annex I of the FAR.
	According to Arti	n the methodology applied	eds to be described taking into account t	ne sub-instaliation's system boundaries (as listed in Annex I of the FAR.
	According to Arti	n the methodology applied ow: - the data source used for the energy flows pursuant to sect	ion 4.5 of Annex VII of the FAR.	,	
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		ical order has been followed? "here means that the data source with the highest rank within	If not, why?	nex VII of the FAR has been used. If this	is not the case, please select "FA
		eason for that from the drop-down list and describe further det	ails below. Reasons for deviation can be	e the following:	
		 Uncertainty assessment: other data sources lead to lower Technical infeasibility: the use of better data sources is tec 		ncertainty assessment pursuant to Article	(2) of the FAR.
		- Unreasonable costs: the use of better data sources would	I incur unreasonable costs.		
		Further details on any deviation from the hierar	chy		
(d)		able heat flows imported from non-ETS installa			
	For the specific	c purpose of the NIMs data collection, this section should o	cover all data provided in section F.(d)	and F.(k).iv in the "baseline data colle	ection" template.
		cle 21 of the FAR, an amount of emissions has to be deducted include any heat from nitric acid pursuant to Article 16(5) of the		rom product-benchmark sub-installations.	
	This should also	Description of the methodology applied			
		Please describe how it is determined that the heat is from	non-ETS origin and that it is consumed	within the system boundaries of this sub-i	nstallation.
		the determination of the benchmark improv	ement rate pursuant to Artic	ele 10a(2) of the Directive	
(e)	•	butable emissions directly attributable emissions			
		e purpose of the NIMs data collection, this section should of here how the emissions of source streams and emissions source			
		consideration the following exemptions:		·	
		 emissions attributable to measurable heat imported to or e provisions set out in section 10.1.2, sub-sections 4 and 5 		not be described here but under point (g) below in accordance with the
		 emissions from waste gases which are IMPORTED from of (f) below. 	other installations or sub-installations and	d consumed in this sub-installation, should	not be included here but under p
	The description	should include an appropriate reference to the latest approved	I monitoring plan under the M&R Regula	tion using the same names for all source	streams and emissions.
		Reference to external files, if relevant			
		ternal source streams relevant? purpose of the NIMs data collection, this section should of	cover all data provided in section F.(i)	in the "baseline data collection" temple	ate.
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		- the method used for the determination of all calculation fac	1	of the FAR. Other data source (if	Other data source (i
		4 Assessed as assessed	Data source	applicable)	applicable)
		Amounts imported or exported Energy content			
		Emission factor or carbon content Biomass content			
		Description of the methodology applied			
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For the spe The attribute i. Are waste ii. Information	Is balance for this sub-installation cific purpose of the NIMs data collection, this section shoul able emissions will take into account any import or export of was o gases relevant for this sub-installation? In on the methodology applied at below for each type of waste gas produced, consumed (inclu- the data source used for the quantifaction of the waste the method used for the determination of energy conte. As more than one of the data sources might be involve and describe further details in the description of the me 1. Waste gases produced 2. Energy content 3. Emission factor 4. Waste gases consumed 5. Energy content 6. Emission factor 7. Waste gases flared (not safety flaring) 8. Energy content 9. Emission factor 10. Waste gases imported 11. Energy content 12. Emission factor 13. Waste gases exported 14. Energy content 15. Emission factor	di cover all data provided in section F.(I) ste gases pursuant to section 10.1.5 of Andria and the section 10.1.5 of Andria and emission factor pursuant section 4.4 of Andria and emission factor pursuant section 4.4 of the template provides for up to three southodology below. Data source	y flaring), imported and exported: anex VII of the FAR. of Annex VII of the FAR. Cother data source (if applicable)	d, please select the three main s
For the spe The attribute i. Are waste ii. Information	Is balance for this sub-installation cific purpose of the NIMs data collection, this section shoul able emissions will take into account any import or export of was o gases relevant for this sub-installation? In on the methodology applied at below for each type of waste gas produced, consumed (inclu- the data source used for the quantifaction of the waste the method used for the determination of energy conte. As more than one of the data sources might be involve and describe further details in the description of the me 1. Waste gases produced 2. Energy content 3. Emission factor 4. Waste gases consumed 5. Energy content 6. Emission factor 7. Waste gases flared (not safety flaring) 8. Energy content 9. Emission factor 10. Waste gases imported 11. Energy content 12. Emission factor 13. Waste gases exported 14. Energy content 15. Emission factor 16. Description of the methodology applied This should include information for all types of waste gas	di cover all data provided in section F.(I) ste gases pursuant to section 10.1.5 of Andria and the section 10.1.5 of Andria and emission factor pursuant section 4.4 of Andria and emission factor pursuant section 4.4 of the template provides for up to three southodology below. Data source	y flaring), imported and exported: anex VII of the FAR. of Annex VII of the FAR. Cother data source (if applicable)	d, please select the three main s
For the spe The attribute i. Are waste ii. Information	Is balance for this sub-installation cific purpose of the NIMs data collection, this section shoul able emissions will take into account any import or export of was o gases relevant for this sub-installation? In on the methodology applied at below for each type of waste gas produced, consumed (inclu- the data source used for the quantifaction of the waste the method used for the determination of energy conte. As more than one of the data sources might be involve and describe further details in the description of the me 1. Waste gases produced 2. Energy content 3. Emission factor 4. Waste gases consumed 5. Energy content 6. Emission factor 7. Waste gases flared (not safety flaring) 8. Energy content 9. Emission factor 10. Waste gases imported 11. Energy content 12. Emission factor 13. Waste gases exported 14. Energy content 15. Emission factor 16. Description of the methodology applied This should include information for all types of waste gas	di cover all data provided in section F.(I) ste gases pursuant to section 10.1.5 of Andria and the section 10.1.5 of Andria and emission factor pursuant section 4.4 of Andria and emission factor pursuant section 4.4 of the template provides for up to three southodology below. Data source	y flaring), imported and exported: anex VII of the FAR. of Annex VII of the FAR. Cother data source (if applicable)	d, please select the three main s
For the spe The attribute i. Are waste ii. Information	Is balance for this sub-installation cific purpose of the NIMs data collection, this section shoul able emissions will take into account any import or export of was o gases relevant for this sub-installation? In on the methodology applied at below for each type of waste gas produced, consumed (inclu- the data source used for the quantifaction of the waste the method used for the determination of energy conte. As more than one of the data sources might be involve and describe further details in the description of the me 1. Waste gases produced 2. Energy content 3. Emission factor 4. Waste gases consumed 5. Energy content 6. Emission factor 7. Waste gases flared (not safety flaring) 8. Energy content 9. Emission factor 10. Waste gases imported 11. Energy content 12. Emission factor 13. Waste gases exported 14. Energy content 15. Emission factor 16. Description of the methodology applied This should include information for all types of waste gas	di cover all data provided in section F.(I) ste gases pursuant to section 10.1.5 of Andria and the section 10.1.5 of Andria and emission factor pursuant section 4.4 of Andria and emission factor pursuant section 4.4 of the template provides for up to three southodology below. Data source	y flaring), imported and exported: anex VII of the FAR. of Annex VII of the FAR. Cother data source (if applicable)	d, please select the three main s
For the spe The attribute i. Are waste ii. Information	Is balance for this sub-installation cific purpose of the NIMs data collection, this section shoul able emissions will take into account any import or export of was o gases relevant for this sub-installation? In on the methodology applied at below for each type of waste gas produced, consumed (inclu- the data source used for the quantifaction of the waste the method used for the determination of energy conte. As more than one of the data sources might be involve and describe further details in the description of the me 1. Waste gases produced 2. Energy content 3. Emission factor 4. Waste gases consumed 5. Energy content 6. Emission factor 7. Waste gases flared (not safety flaring) 8. Energy content 9. Emission factor 10. Waste gases imported 11. Energy content 12. Emission factor 13. Waste gases exported 14. Energy content 15. Emission factor 16. Description of the methodology applied This should include information for all types of waste gas	di cover all data provided in section F.(I) ste gases pursuant to section 10.1.5 of Andria and the section 10.1.5 of Andria and emission factor pursuant section 4.4 of Andria and emission factor pursuant section 4.4 of the template provides for up to three southodology below. Data source	y flaring), imported and exported: anex VII of the FAR. of Annex VII of the FAR. Cother data source (if applicable)	d, please select the three main s
For the spe The attribute i. Are waste ii. Information	Is balance for this sub-installation cific purpose of the NIMs data collection, this section shoul able emissions will take into account any import or export of was o gases relevant for this sub-installation? In on the methodology applied at below for each type of waste gas produced, consumed (inclu- the data source used for the quantiflaction of the waste the method used for the determination of energy conte. As more than one of the data sources might be involve and describe further details in the description of the me 1. Waste gases produced 2. Energy content 3. Emission factor 4. Waste gases consumed 5. Energy content 6. Emission factor 7. Waste gases flared (not safety flaring) 8. Energy content 9. Emission factor 10. Waste gases imported 11. Energy content 12. Emission factor 13. Waste gases exported 14. Energy content 15. Emission factor 16. Description of the methodology applied This should include information for all types of waste ga If flaring is relevant in your installation, please explain he	di cover all data provided in section F.(I) ste gases pursuant to section 10.1.5 of Andria and the section 10.1.5 of Andria and emission factor pursuant section 4.4 of Andria and emission factor pursuant section 4.4 of the template provides for up to three southodology below. Data source	y flaring), imported and exported: anex VII of the FAR. of Annex VII of the FAR. Cother data source (if applicable)	d, please select the three main s
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For the spe The attribut i. Are waste ii. Informatic Please select	Is balance for this sub-installation cific purpose of the NIMs data collection, this section shoul able emissions will take into account any import or export of was o gases relevant for this sub-installation? In on the methodology applied at below for each type of waste gas produced, consumed (inclu- the data source used for the quantiflaction of the waste the method used for the determination of energy conte. As more than one of the data sources might be involve and describe further details in the description of the me 1. Waste gases produced 2. Energy content 3. Emission factor 4. Waste gases consumed 5. Energy content 6. Emission factor 7. Waste gases flared (not safety flaring) 8. Energy content 9. Emission factor 10. Waste gases imported 11. Energy content 12. Emission factor 13. Waste gases exported 14. Energy content 15. Emission factor 16. Description of the methodology applied This should include information for all types of waste ga If flaring is relevant in your installation, please explain he	di cover all data provided in section F.(I) ste gases pursuant to section 10.1.5 of An ding safety flaring), flared (other than safet gas amounts pursuant to section 4.4 of Ar nt and emission factor pursuant section 4.4 the template provides for up to three sot thodology below. Data source Data source asses identified above. ow it was classified into "safety flaring" and	nex VII of the FAR. If laring), imported and exported: If the FAR. If the FAR. If the FAR. Other data source (if applicable) Other data source (if applicable) other flaring.	d, please select the three main s Other data source applicable)

Further details on any deviation from the hierarchy

2 Sub-i	installation w	ith product benchmark:			
	The name of the	product benchmark sub-installation is displayed automatically	based in the inputs in sheet "C_Installation	onDescription".	
(a)	Sytem bound	ructions for data entries in this tool can be fou daries of the sub-installation	and at the first copy of this tool	<u>. (F.I.1)</u>	
i.	. Information or	n the methodology applied			
ii.	. Reference to	external files, if relevant			
		a separate detailed flow diagram, if relevant			
(b)		he determination of annual production (=activi	tv) levels		
		n the methodology applied	ty) levels		
	. <u>IIIIOIIIIaaioii oi</u>	The methodology applied	Data source	Other data source (if	Other data source (if
		1 Quantities of products	Data source	applicable)	applicable)
		Quantities of products Annual quantities of products			
		Special reporting requirements:			
		Description of the methodology applied			
		D. (
		Reference to external files, if relevant	W		
ii.	. The hierarchi	cal order has been followed?	If not, why?		
		Further details on any deviation from the hierar			
iii.	. Description of	f the methodology for keeping track of the products	s produced		
(c)	Evchangeah	ility of fuel and electricity:			
		n the methodology applied			
		Relevant electricity consumption	Data source	Other data source (if applicable)	Other data source (if applicable)
		2. Description of the methodology applied			
		Reference to external files, if relevant			
ii	The hierarchi	cal order has been followed?	If not, why?		
".	. The meraterin	Further details on any deviation from the hierard			
		Tuttier details on any deviation from the fileran	ony		
(d)	Are measura	ble heat flows imported from non-ETS installa	tions or entities relevant?		
		Description of the methodology applied			
(e)	Directly attri	the determination of the benchmark improvi	ement rate pursuant to Article	e 10a(2) of the Directive	
(e)	Directly attri	· · · · · · · · · · · · · · · · · · ·	ement rate pursuant to Articl	e 10a(2) of the Directive	
(e)	Directly attri	butable emissions	ement rate pursuant to Articl	e 10a(2) of the Directive	
(e)	Directly attri	butable emissions	ement rate pursuant to Articl	e 10a(2) of the Directive	
(e)	Directly attri	butable emissions directly attributable emissions	ement rate pursuant to Articl	e 10a(2) of the Directive	
(e) i.	Directly attri Attribution of	butable emissions directly attributable emissions Reference to external files, if relevant	ement rate pursuant to Articl	e 10a(2) of the Directive	
(e) i.	Directly attri . Attribution of	butable emissions directly attributable emissions Reference to external files, if relevant ternal source streams relevant?	ement rate pursuant to Articl	e 10a(2) of the Directive Other data source (if applicable)	Other data source (if applicable)
(e) i.	Directly attri . Attribution of	butable emissions directly attributable emissions Reference to external files, if relevant ternal source streams relevant? 1. Amounts imported or exported 2. Energy content	1	Other data source (if	
(e) i.	Directly attri . Attribution of	butable emissions directly attributable emissions Reference to external files, if relevant ternal source streams relevant? 1. Amounts imported or exported 2. Energy content 3. Emission factor or carbon content	1	Other data source (if	
(e) i.	Directly attri . Attribution of	butable emissions directly attributable emissions Reference to external files, if relevant ternal source streams relevant? 1. Amounts imported or exported 2. Energy content 3. Emission factor or carbon content 4. Biomass content	1	Other data source (if	
(e) i.	Directly attri . Attribution of	butable emissions directly attributable emissions Reference to external files, if relevant ternal source streams relevant? 1. Amounts imported or exported 2. Energy content 3. Emission factor or carbon content	1	Other data source (if	
(e) i.	Directly attri . Attribution of	butable emissions directly attributable emissions Reference to external files, if relevant ternal source streams relevant? 1. Amounts imported or exported 2. Energy content 3. Emission factor or carbon content 4. Biomass content	1	Other data source (if	
(e) i.	Directly attri . Attribution of	butable emissions directly attributable emissions Reference to external files, if relevant ternal source streams relevant? 1. Amounts imported or exported 2. Energy content 3. Emission factor or carbon content 4. Biomass content	1	Other data source (if	
(e) i.	Directly attri . Attribution of	butable emissions directly attributable emissions Reference to external files, if relevant ternal source streams relevant? 1. Amounts imported or exported 2. Energy content 3. Emission factor or carbon content 4. Biomass content	1	Other data source (if	

		Reference to external files, if relevant			
(f)	Fuel input to t	his sub-installation and relevant emission fac	ctor		
		the methodology applied	1		
			Data source	Other data source (if applicable)	Other data source (if applicable)
		Fuel input		аррисало)	арричано)
		Weighted emission factor			
	3.	Description of the methodology applied			
		Reference to external files, if relevant			
ii.	. The hierarchica	al order has been followed?	If not, why?		
		Further details on any deviation from the hierarc	chy		
(g)	Measurable he	eat import to and export from this sub-installa	ation		
		e heat flows relevant for this sub-installation?			
ii.	. Information on	the methodology applied	1	Other data source (if	Other data source (if
			Data source	applicable)	applicable)
		Measurable heat imported		•	· · · · · · · · · · · · · · · · · · ·
		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	he methodology for determination of the relevant	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 produ	ucing pulp relevant?		
		Description of the methodology applied			
(h)		ance for this sub-installation es relevant for this sub-installation?			
ii.	. Information on	the methodology applied	1		
			Data source	Other data source (if applicable)	Other data source (if applicable)
	1.	Waste gases produced		аррисаые)	арріїсавіе)
		Energy content			
		Emission factor Waste gases consumed			
	5.	Energy content			
	6.	Emission factor			
		Waste gases flared (not safety flaring) Energy content			
	9.	Emission factor			
		Waste gases imported			
		Energy content Emission factor			
	13.	Waste gases exported			
		Energy content Emission factor			
		Description of the methodology applied			
	10.	2 3 3 7 Parion of the methodology applied			
		Deference to outs === f === f			
		Reference to external files, if relevant	If not, why?		
	The Late of the Control of the Contr	d andre has been fellered to	If not why?		
iii.	. The hierarchica	al order has been followed?			
iii.	. The hierarchica	al order has been followed? Further details on any deviation from the hierard			
iii.	. The hierarchica				

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

The navigation bar above only contains links to sub-installations that are selected as "relevant" in section A.III.2.

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
- noncontant and ventual criecus 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.

			ions

	Fair-back Sub-ilistaliations					
1 Fall-b	pack sub-installation:	Heat benchmark sub-install	ation, CL			
(a)	Sytem boundaries of the sub-installation					
	. Information on the methodology applied					
	As required by Annex VI, section 2(b), please describe the sytem boundaries of	f this sub-installation covering the following	ng aspects:			
	 which technical units are included, which processes are carried out, 					
	which input materials and fuels, and					
	 which products and outputs are attributed. 					
	If this information is already provided in sufficient detail in section C.II, ple	ease just include reference here to this	s section and proceed with the next po	ints below.		
ii.	. Reference to external files, if relevant					
iii.	. Reference to a separate detailed flow diagram, if relevant In case of a more complex sub-installations, please provide a detailed flow diagram.	from if not included under it above				
	in case of a more complex sub-installations, please provide a detailed now diag	ram, ii not included under i. above.				
(b)	Method for the determination of annual activity levels	ever all data provided in coetien C (a)	in the "beerline date collection" town	lata		
_	For the specific purpose of the NIMs data collection, this section should co	over all data provided ill section G.(a)	in the baseline data collection tempi	ate.		
II.	. Information on the methodology applied Please select below:					
	the data source used for the energy flows pursuant to sect	tion 4.5 of Annex VII of the FAR.				
	- the method used for the determination of annual quantities			alassa salast tha th		
	As more than one of the data sources might be involved, the and describe further details in the description of the method	ne template provides for up to three soun dology below.	ces. IT even turther sources are involved,	please select the three main sources		
		Data source	Other data source (if	Other data source (if		
		Data source	applicable)	applicable)		
	Quantification of measurable heat flows Net measurable heat flows					
	Description of the methodology applied					
	Please describe in particular any assumptions if the 95% ru	up in Article 10/3) of the EAR is applied				
	riease describe in particular any assumptions if the 30% to	The IT Article To(3) of the LART'S applied.				
	Reference to external files, if relevant					
ii.	. The hierarchical order has been followed?	If not, why?	Weekler FAD has been dealers	Within its and the second second second		
	Selecting "TRUE" here means that the data source with the highest rank within "FALSE" and select the reason for that from the drop-down list and describe fu			II tills is not the case, please select		
	- Uncertainty assessment: other data sources lead to lower	uncertainty according to the simplified un	certainty assessment pursuant to Article	7(2) of the FAR.		
	- Technical infeasibility: the use of better data sources is tech					
	 Unreasonable costs: the use of better data sources would 					
	Further details on any deviation from the hierarc	chy				
iii.	. Description of the methodology for keeping track of the products	s produced				
	This should include the methodology on how relevant PRODCOM codes are tree	acked in accordance with sections 2.1(a)				
	If you have exported measurable heat to non-ETS installations or entities, pleas If you have exported measurable heat for district heating, please describe how			s in which this measurable heat was		
	ii you have exported measurable near for district nearing, please describe now	you have determined the respective and	ounts.			
Data	required for the determination of the benchmark improve	ement rate pursuant to Articl	e 10a(2) of the Directive			
(c)	Directly attributable emissions For the specific purpose of the NIMs data collection, this section should be	over all data provided in section G (s)	in the "baseline data collection" templ	lato		
	Please describe here how the emissions of source streams and emissions sour					
	FAR, taking into consideration the following excemptions:					
	 Measurable heat: where the heat is exclusively produced for Wherever fuels are used to produce measurable heat whice 					
	steam network with several heat producing units), the fuels					
	If the heat is produced from CHPs, please describe how all	the state of the s				
	 emissions associated with measurable heat produced from included here but under point (d) below. 	waste gases imported from other installa	ations or sub-installations and used in thi	s sub-installation, should not be		
	and point (a) boom					
	Reference to external files, if relevant					

(d)		this sub-installation and releva purpose of the NIMs data collection, thi			in the "baseline data collection" temp	late.
	i. Information or Please select bei	the methodology applied				
	ricase select bei	- the data source used for the quantifact				
		The term "fuel" should be understood a 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	nds to the accumula	ated emissions from the fuels, including th	hose used to produce measurable heat,	divided by the total energy content. The
				ions from corresponding flue gas cleaning		places calcut the three main sources
		and describe further details in the desc			rces. If even further sources are involved	, please select the three main sources
			Relevant?	Data source	Other data source (if applicable)	Other data source (if applicable)
		Fuel input				
		Net calorific value Weighted emission factor				
		Fuel input from waste gases				
		5. Net calorific value 6. Emission factor				
		7. Description of the methodology	applied		•	
		, , , , , , , , , , , , , , , , , , , ,				
		Reference to external files, if re	levant			
	ii. The hierarchic	al order has been followed?		If not, why?		
		Further details on any deviation	from the hierard	chy		
(e)		neat produced purpose of the NIMs data collection, thi	is section should co	over all data provided in section G.(e)	in the "baseline data collection" temp	late.
	i. Information or	the methodology applied				
		w the data source pursuant to section 4.5 e of the data sources might be involved, th				area main sources and describe further
		cription of the methodology below.	ic template provides	Tor up to arree sources. If ever farance s	sources are involved, piedse select are a	iree main sources and describe larater
				Data source	Other data source (if	Other data source (if
		Heat produced			applicable)	applicable)
		2. Description of the methodology	applied		•	
	•	Description of the methodology	арриос			
		Reference to external files, if re	levant			
	ii The hierarchio	al order has been followed?	levani	If not, why?		
	ii. The fileratoriid			ii flot, willy :		
		Further details on any deviation	from the hierard	-bv		
		Further details on any deviation	from the hierard	chy		
		Further details on any deviation	from the hierard	chy		
(f)	Measurable i	neat imported				
(f)	For the specific	neat imported purpose of the NIMs data collection, thi	is section should co	over all data provided in section G.(f) i	in the "baseline data collection" templ	ate.
(f)	For the specific	neat imported	is section should co	over all data provided in section G.(f) i	in the "baseline data collection" templ	ate.
(f)	i. Are further me	neat imported purpose of the NIMs data collection, thi	is section should co	over all data provided in section G.(f) i	in the "baseline data collection" templ	ate.
(f)	ii. Information or Please enter belo	neat imported purpose of the NMs data collection, thi assurable heat flows relevant for the the methodology applied w the data source pursuant to section 4.5	is section should co	over all data provided in section G.(f) ion? FAR used to determine the amount of m		
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(f)	ii. Information or Please enter belo	leat imported purpose of the NIMs data collection, thi easurable heat flows relevant for the the methodology applied withe data source pursuant to section 4.5 t to section 7.2 of Annex VII of the FAR IT - Net heat imported (other sources): this onsite and consumed within this sub-in-	is section should or his sub-installation of Annex VII of the rorn each of the follor includes heat impor stallation. Measurab	over all data provided in section G.(f) in pn? FAR used to determine the amount of ming sources, where relevant: ted from other installations, or, where mine the heat imported from any product BM st	neasurable heat imported and the metho	d used for the determination of net
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2 Fall	-back sub-instal	llation:		Heat benchmark sub-instal	lation, non-CL	
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(a)	=	aries of the sub-installation the methodology applied				
	ii. Reference to e	xternal files, if relevant				
		separate detailed flow diagram, if	relevant			
(b)	Method for the	e determination of annual activity	ty levels	over all date provided in eastion C (a)	in the "becaling data collection" town	late.
		the methodology applied	section should co	over all data provided in Section G.(a)	in the baseline data conection temp	ate.
	·			Data source	Other data source (if applicable)	Other data source (if applicable)
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		Net measurable heat flows Description of the methodology a	applied			
		37	11			
	4.	Reference to external files, if rele	evant		[
		al order has been followed?		If not, why?		
		Further details on any deviation f	from the hierard	chy		
i	iii. Description of t	the methodology for keeping track	of the products	produced		
Data	a required for th	e determination of the bench	mark improve	ement rate pursuant to Artic	e 10a(2) of the Directive	
Data (c)	Directly attribu	e determination of the bench utable emissions				
	Directly attribu					late.
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# The hierarchical order has been followed? Further details on any deviation from the hierarchy # 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 VIII ## Reference to external files, if relevant ## Reference for external files, if relevant ## Reference for external files, if relevant ## The hierarchical order has been followed? ## Reference to external files, if relevant ## Reference to extern						
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(d) Fuel input to this sub-installation and relevant emission factor For the specific purpose of the NIMs data collection, this section should cover all data provided in section G.(d) in the "baseline data collection" template. i. Information on the methodology applied Data source Other data source (if	ii. The hierarchi iii. Description o Data required for (c) Directly attri	1. Quantification of measurable I 2. Net measurable heat flows 3. Description of the methodolog 4. Reference to external files, if racal order has been followed? Further details on any deviation of the methodology for keeping trace. If the methodology for keeping trace the methodology for keeping trace.	y applied relevant on from the hierarc	If not, why? hy produced	Other data source (if applicable) applicable) le 10a(2) of the Directive	Other data source (ii applicable)
(d) Fuel input to this sub-installation and relevant emission factor For the specific purpose of the NIMs data collection, this section should cover all data provided in section G.(d) in the "baseline data collection" template. i. Information on the methodology applied Data source Other data source (if	ii. The hierarchi iii. Description o Data required for (c) Directly attri	1. Quantification of measurable I 2. Net measurable heat flows 3. Description of the methodolog 4. Reference to external files, if racal order has been followed? Further details on any deviation of the methodology for keeping trace. If the methodology for keeping trace the methodology for keeping trace.	y applied relevant on from the hierarc	If not, why? hy produced	Other data source (if applicable) applicable) le 10a(2) of the Directive	Other data source (ii applicable)
(d) Fuel input to this sub-installation and relevant emission factor For the specific purpose of the NIMs data collection, this section should cover all data provided in section G.(d) in the "baseline data collection" template. i. Information on the methodology applied Data source Other data source (if	ii. The hierarchi iii. Description o Data required for (c) Directly attri	1. Quantification of measurable I 2. Net measurable heat flows 3. Description of the methodolog 4. Reference to external files, if racal order has been followed? Further details on any deviation of the methodology for keeping trace. If the methodology for keeping trace the methodology for keeping trace.	y applied relevant on from the hierarc	If not, why? hy produced	Other data source (if applicable) applicable) le 10a(2) of the Directive	Other data source (ii applicable)
(d) Fuel input to this sub-installation and relevant emission factor For the specific purpose of the NIMs data collection, this section should cover all data provided in section G.(d) in the "baseline data collection" template. i. Information on the methodology applied Data source Other data source (if	ii. The hierarchi iii. Description o Data required for (c) Directly attri	1. Quantification of measurable I 2. Net measurable heat flows 3. Description of the methodolog 4. Reference to external files, if racal order has been followed? Further details on any deviation of the methodology for keeping trace. If the methodology for keeping trace the methodology for keeping trace.	y applied relevant on from the hierarc	If not, why? hy produced	Other data source (if applicable) applicable) le 10a(2) of the Directive	Other data source (ii applicable)
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Data source Other data source (if Other data source	ii. The hierarchi iii. Description o Data required for (c) Directly attri For the specific	1. Quantification of measurable I 2. Net measurable heat flows 3. Description of the methodolog 4. Reference to external files, if racal order has been followed? Further details on any deviation f the methodology for keeping trace the determination of the benefit butable emissions purpose of the NIMs data collection, to the NIMs data collection, the NIMs data collection data collecti	relevant chmark improve this section should co	produced proment rate pursuant to Artice ever all data provided in section G.(c)	Other data source (if applicable) applicable) le 10a(2) of the Directive	Other data source (if applicable)
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		Net calorific value				
		Weighted emission factor Fuel input from waste gases				
		Net calorific value Emission factor				
		Description of the methodology	applied	l		
	• •	Decemple of the methodology	арриоч			
		Reference to external files, if rel	levant			
ii	i. The hierarchica	al order has been followed?		If not, why?		
		Further details on any deviation	from the hierard	chy		
(e)	Measurable he					
		urpose of the NIMs data collection, this the methodology applied	s section should co	over all data provided in section G.(e)	in the "baseline data collection" temp	late.
	<u>mnomnanom om</u>	<u>шо тошовоеду арриов</u>		Data source	Other data source (if	Other data source (if
	1.	Heat produced			applicable)	applicable)
		Description of the methodology	applied			
		Reference to external files, if re	levant			
ii	i. The hierarchica	al order has been followed?		If not, why?		
		Further details on any deviation	from the hierard	chy		
(f)	Measurable he	eat imported				
	For the specific p	urpose of the NIMs data collection, thi			in the "baseline data collection" templ	late.
i	i. Are further mea	asurable heat flows relevant for the	nis sub-installation	on?		
ii	i. Information on	the methodology applied				
	<u></u>	<u>шо тошовоеду врршев</u>	Relevant?	Data source	Other data source (if	Other data source (if
	1	imported (other sources)	11010101111		applicable)	applicable)
	2.	Net measurable flows				
		imported (from product BM) Net measurable flows	-			
	5.	imported (from pulp)				
		Net measurable flows imported (from fuel BM)				
	8.	Net measurable flows				
		imported (from waste gases) Net measurable flows	-			
		Description of the methodology	applied	<u> </u>		
	11.					
	11.	Description of the methodology				
	11.	Description of the methodology				
	11.	Description of the methodology				
	11.	Description of the methodology				
	11.	Reference to external files, if rel	levant			
ii			levant	If not, why?		
ii		Reference to external files, if rel				
ii		Reference to external files, if relational order has been followed?				
	i. <u>The hierarchica</u>	Reference to external files, if rel al 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).
	i. <u>The hierarchica</u>	Reference to external files, if rel al 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).
	i. <u>The hierarchica</u>	Reference to external files, if rel al 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).
	i. <u>The hierarchica</u>	Reference to external files, if rel al 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).
	i. <u>The hierarchica</u>	Reference to external files, if rel al 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).
	i. <u>The hierarchica</u>	Reference to external files, if rel al order has been followed? Further details on any deviation	n from the hierard	chy	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
	i. <u>The hierarchica</u>	Reference to external files, if relational relationship in the methodology for determination	n from the hierard	chy	accordance with sections 10.1.2.	and 10.1.3. of Annex VII (FAR).
iii	i. The hierarchica	Reference to external files, if relational order has been followed? Further details on any deviation he methodology for determination Reference to external files, if relationships to the second of the second or seco	n from the hierard	attributable emission factors in a		and 10.1.3. of Annex VII (FAR).
iii	i. <u>The hierarchica</u>	Reference to external files, if relational order has been followed? Further details on any deviation he methodology for determination Reference to external files, if relationships to the second of the second or seco	n from the hierard	chy		and 10.1.3. of Annex VII (FAR).
iii	i. The hierarchica	Reference to external files, if relations and deviation the methodology for determination reference to external files, if relations:	n of the relevant	attributable emission factors in a	ation, CL	and 10.1.3. of Annex VII (FAR).
4 Fall-I	i. The hierarchica i. Description of the back sub-instale description descript	Reference to external files, if relations for data entries in this sections	n of the relevant	attributable emission factors in a	ation, CL	and 10.1.3. of Annex VII (FAR).
4 Fall-i	i. The hierarchica i. Description of the back sub-instale back sub-instale back system bounds.	Reference to external files, if relations and deviation the methodology for determination reference to external files, if relations:	n of the relevant	attributable emission factors in a	ation, CL	and 10.1.3. of Annex VII (FAR).
4 Fall-i	i. The hierarchica i. Description of t back sub-instal Detailed instru Sytem bounda i. Information on As required by Ann	Reference to external files, if relation: Reference to external files, if relations and deviation the methodology for determination arries of the sub-installation the methodology applied nex VI, section 2(b), please describe the	n of the relevant	attributable emission factors in a	ation, CL	and 10.1.3. of Annex VII (FAR).
4 Fall-i	i. The hierarchica i. Description of the back sub-instal Detailed instruction on the back sub-instal As required by Annual Sub-instal	Reference to external files, if relations are to external files, if relations are to external files, if relations are to external files, if relations for data entries in this staries of the sub-installation the methodology applied	n of the relevant	attributable emission factors in a	ation, CL	and 10.1.3. of Annex VII (FAR).
4 Fall-i	i. The hierarchica i. Description of t back sub-instal Detailed instru Sytem bounda i. Information on As required by Ann	Reference to external files, if rei all order has been followed? Further details on any deviation the methodology for determination Reference to external files, if rei llation: lations for data entries in this lateral files are included, which processes are carried out, which input materials and fuels, and	n of the relevant levant tool can be four	attributable emission factors in a	ation, CL	and 10.1.3. of Annex VII (FAR).
4 Fall-i	i. <u>The hierarchica</u> i. <u>Description of the light of the </u>	Reference to external files, if related and order has been followed? Further details on any deviation the methodology for determination. Reference to external files, if relations: Illation: Interest of the sub-installation the methodology applied play VI, section 2(b), please describe the which technical units are included, which processes are carried out, which processes are carried out, which input materials and fuels, and which products and outputs are attribut are attribut are attribut are attribut are attribut are attributs.	n of the relevant levant tool can be four	attributable emission factors in a tributable emission factors in attributable emission factors in a attributable emission factors in attributable emission factors in attributable emission fa	ation, CL i. (G.l.1) ing aspects:	
4 Fall-i	i. <u>The hierarchica</u> i. <u>Description of the light of the </u>	Reference to external files, if related and order has been followed? Further details on any deviation the methodology for determination. Reference to external files, if relations: Illation: Interest of the sub-installation the methodology applied play VI, section 2(b), please describe the which technical units are included, which processes are carried out, which processes are carried out, which input materials and fuels, and which products and outputs are attribut are attribut are attribut are attribut are attribut are attributs.	n of the relevant levant tool can be four	attributable emission factors in a tributable emission factors in attributable emission factors in a attributable emission factors in attributable emission factors in attributable emission fa	ation, CL	
4 Fall-i	i. <u>The hierarchica</u> i. <u>Description of the light of the </u>	Reference to external files, if related and order has been followed? Further details on any deviation the methodology for determination. Reference to external files, if relations: Illation: Interest of the sub-installation the methodology applied play VI, section 2(b), please describe the which technical units are included, which processes are carried out, which processes are carried out, which input materials and fuels, and which products and outputs are attribut are attribut are attribut are attribut are attribut are attributs.	n of the relevant levant tool can be four	attributable emission factors in a tributable emission factors in attributable emission factors in a attributable emission factors in attributable emission factors in attributable emission fa	ation, CL i. (G.I.1) ing aspects:	
4 Fall-i	i. <u>The hierarchica</u> i. <u>Description of the light of the </u>	Reference to external files, if related and order has been followed? Further details on any deviation the methodology for determination. Reference to external files, if relations: Illation: Interest of the sub-installation the methodology applied play VI, section 2(b), please describe the which technical units are included, which processes are carried out, which processes are carried out, which input materials and fuels, and which products and outputs are attribut are attribut are attribut are attribut are attribut are attributs.	n of the relevant levant tool can be four	attributable emission factors in a tributable emission factors in attributable emission factors in a attributable emission factors in attributable emission factors in attributable emission fa	ation, CL i. (G.I.1) ing aspects:	
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4 Fall-I (a)	i. The hierarchica i. Description of the second of the se	Reference to external files, if related order has been followed? Further details on any deviation the methodology for determination. Reference to external files, if relation: Illation: Illation: Interest of the sub-installation the methodology applied per VI, section 2(b), please describe the which technical units are included, which processes are carried out, which processes are carried out, which input materials and fuels, and which products and outputs are attribut is already provided in sufficient details are already provided in sufficient details sufficient files, if relevant separate detailed flow diagram, is separated detailed flow diagram.	n of the relevant levant tool can be fou	Fuel benchmark sub-install at the first copy of this too	ation, CL i. (G.I.1) ing aspects:	
4 Fall-I (a)	i. The hierarchica i. Description of the second of the se	Reference to external files, if relations of the sub-installation: Interest of the sub-installation of the methodology for determination of the methodology for determination of the methodology for determination of the methodology and the sub-installation of the methodology applied nex VI, section 2(b), please describe the which processes are carried out, which input materials and fuels, and which products and outputs are attribut is already provided in sufficient details and fuels, if relevant the sub-installation of the sub-in	n of the relevant levant tool can be fou	Fuel benchmark sub-install and at the first copy of this too if this sub-installation covering the follows	ation, CL i. (G.I.1) ing aspects:	
4 Fall-I (a)	i. The hierarchica i. Description of t i. Description of t i. Detailed instru Sytem bounda i. Information on As required by Ann If this information If this information In case of a more of the property of t	Reference to external files, if related order has been followed? Further details on any deviation the methodology for determination. Reference to external files, if relation: Illation: Interest of the sub-installation the methodology applied nex VI, section 2(b), please describe the which technical units are included, which processes are carried out, which injust materials and fuels, and which products and outputs are attributed is already provided in sufficient details are already provide	n of the relevant levant tool can be fou sytem boundaries of the control of the	Fuel benchmark sub-install and at the first copy of this too of this sub-installation covering the following the	ation, CL I. (G.l.1) Ing aspects: Is section and proceed with the next position of the section and proceed with the next position.	pints below.
4 Fall-(a)	i. The hierarchica i. Description of t i. Description of t i. Detailed instru Sytem bounda i. Information on As required by Ann If this information If this information If the specific p Method for the For the specific p	Reference to external files, if related order has been followed? Further details on any deviation the methodology for determination. Reference to external files, if relation: Illation: Interest of the sub-installation the methodology applied nex VI, section 2(b), please describe the which technical units are included, which processes are carried out, which injust materials and fuels, and which products and outputs are attributed is already provided in sufficient details are already provide	n of the relevant levant tool can be fou sytem boundaries of the control of the	Fuel benchmark sub-install and at the first copy of this too of this sub-installation covering the following the	ation, CL i. (G.I.1) ing aspects:	pints below.

		the data source used for the quantities pursuant to section			
		 the method used for the determination of the energy conter. As more than one of the data sources might be involved, the and describe further details in the description of the method. 	e template provides for up to three sou		, please select the three main sources
		and describe totale details in the description of the method	Data source	Other data source (if applicable)	Other data source (if applicable)
		. Fuel input . Energy content		, ,	,,
		Description of the methodology applied			
		Please describe in particular any assumptions if the 95% rule	le in Article 10(3) of the FAR is applied.		
	4	Reference to external files, if relevant			
ii	. The hierarchic	al order has been followed? Further details on any deviation from the hierarc	If not, why?		
		Turner details on any deviation from the filerance	ary		
iii	. Description of	the methodology for keeping track of the products	produced		
Data	required for th	ne determination of the benchmark improve	ement rate pursuant to Artic	le 10a(2) of the Directive	
(c)		utable emissions purpose of the NIMs data collection, this section should co	over all data provided in section G.(c)	in the "baseline data collection" temp	late.
				·	
		Reference to external files, if relevant			
(d)		this sub-installation and relevant emission fac ourpose of the NIMs data collection, this section should co		in the "baseline data collection" temp	late.
i	i. Information on Please select belo	the methodology applied			
		 the data source used for the quantifaction of the fuel input p the method used for the determination of net calorific values 			
		As more than one of the data sources might be involved, the and describe further details in the description of the method	e template provides for up to three sou lology below.	rces. If even further sources are involved	, please select the three main sources
		Relevant?	Data source	Other data source (if applicable)	Other data source (if applicable)
		. Fuel input . Net calorific value			
		. Weighted emission factor . Fuel input from waste gases			
		. Net calorific value . Emission factor			
	7	. Description of the methodology applied			
		Reference to external files, if relevant			
ii	i. The hierarchic	al order has been followed?	If not, why?		
		Further details on any deviation from the hierarc	hy		
(e)		ourpose of the NIMs data collection, this section should co		in the "baseline data collection" temp	late.
i	. Are further me	asurable heat flows relevant for this sub-installation	on?		
ii	i. Information on	the methodology applied	Data comme	Other data source (if	Other data source (if
	1	. Heat exported	Data source	applicable)	applicable)
	2	Net measurable heat flows			
	3	. Description of the methodology applied			
		Reference to external files, if relevant			
ii	. The hierarchic	al order has been followed?	If not, why?		
		Further details on any deviation from the hierarc	hy		
,	Description of	the methodology for determination of the relevant	attributable omission factors in	accordance with continue 40.4.0	and 10.1.3 of Appear VIII (EAD)
III	. Description of	the methodology for determination of the relevant	aunoutable emission factors in a	accordance with Sections 10.1.2.	and 10.1.3. Of Annex VII (FAR)
		Reference to external files, if relevant			

	Duon oud mon	allation:	Fuel benchmark sub-install	lation, non-CL	
	Detailed inst	ructions for data entries in this tool can be fo	und at the first copy of this tool	<u>l. (G.l.1)</u>	
(a)	Sytem bound	laries of the sub-installation			
	j. Information or	the methodology applied			
	If this information	n is already provided in sufficient detail in section C.II, p	lease just include reference here to this	s section and proceed with the next po	oints below.
i	ii. Reference to	external files, if relevant			
ii	ii. Reference to	a separate detailed flow diagram, if relevant			
(1-)	Mothed for th	a determination of annual activity levels			
(b)		ne determination of annual activity levels purpose of the NIMs data collection, this section should	cover all data provided in section G.(a)	in the "baseline data collection" templ	late.
i	ii Information or	the methodology applied			
·		<u> </u>	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%	use in Article 10/2) of the EAD is applied		
		Please describe in particular any assumptions if the 95%	ule III Article 10(3) of the FAR is applied.		
	4	Reference to external files, if relevant			
i	ii. The hierarchio	al order has been followed?	If not, why?		
		Further details on any deviation from the hiera			
ii	ii. Description of	the methodology for keeping track of the produc	s produced		
Data	required for t	he determination of the benchmark improv	ement rate pursuant to Articl	le 10a(2) of the Directive	
(c)	-	outable emissions	·	` '	
(0)		purpose of the NIMs data collection, this section should	cover all data provided in section G.(c)	in the "baseline data collection" templ	late.
		Deference to external files if relevant			
		Reference to external files, if relevant			
(d)		this sub-installation and relevant emission fa			
	For the specific	this sub-installation and relevant emission fa purpose of the NIMs data collection, this section should		in the "baseline data collection" tempi	late.
	For the specific	this sub-installation and relevant emission fa purpose of the NIMs data collection, this section should the methodology applied		in the "baseline data collection" tempi	late.
	For the specific i. Information or	this sub-installation and relevant emission fa purpose of the NIMs data collection, this section should the methodology applied w:	cover all data provided in section G.(d)	Other data source (if	Other data source (if
	For the specific i. Information or Please select bel	this sub-installation and relevant emission fa purpose of the NIMs data collection, this section should the methodology applied w: Relevant?			
	For the specific i. Information or Please select bel	this sub-installation and relevant emission fa purpose of the NIMs data collection, this section should the methodology applied bw: Relevant?	cover all data provided in section G.(d)	Other data source (if	Other data source (if
	For the specific i. Information or Please select bel	this sub-installation and relevant emission fa purpose of the NIMs data collection, this section should the methodology applied w: Relevant?	cover all data provided in section G.(d)	Other data source (if	Other data source (if
	For the specific i. Information or Please select bel	this sub-installation and relevant emission fa purpose of the NIMs data collection, this section should the methodology applied w: Relevant? Fuel input Net calorific value Weighted emission factor Fuel input from waste gases	cover all data provided in section G.(d)	Other data source (if	Other data source (if
	For the specific i. Information or Please select bel	this sub-installation and relevant emission fapurpose of the NIMs data collection, this section should the methodology applied Relevant? Fuel input Net calorific value Weighted emission factor Fuel input from waste gases Net calorific value	cover all data provided in section G.(d)	Other data source (if	Other data source (if
	For the specific i. Information or Please select bel	this sub-installation and relevant emission factor purpose of the NIMs data collection, this section should the methodology applied Relevant? Fuel input Net calorific value Weighted emission factor Fuel input from waste gases Net calorific value Emission factor	cover all data provided in section G.(d)	Other data source (if	Other data source (if
	For the specific i. Information or Please select bel	this sub-installation and relevant emission fapurpose of the NIMs data collection, this section should the methodology applied Relevant? Fuel input Net calorific value Weighted emission factor Fuel input from waste gases Net calorific value	cover all data provided in section G.(d)	Other data source (if	Other data source (if
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	For the specific i. Information or Please select bel	this sub-installation and relevant emission factor purpose of the NIMs data collection, this section should the methodology applied Relevant? Fuel input Net calorific value Weighted emission factor Fuel input from waste gases Net calorific value Emission factor	cover all data provided in section G.(d)	Other data source (if	Other data source (if
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iii.	Description of the	ne methodology for determination of the relevant	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		
6 Fall-b	ack sub-instal	lation:	Process emissions sub-ins	tallation, CL
				•
(-)		ections for data entries in this tool can be four	nd at the first copy of this tool	l. (G.I.1)
(a) i.	Information on t	ries of the sub-installation he methodology applied is already provided in sufficient detail in section C.II, ple	ase iust include reference here to this	s section and proceed with the next points below.
ii.	Reference to ex	ternal files, if relevant		
		separate detailed flow diagram, if relevant		
(b)	Method for the	determination of annual activity levels		
i		urpose of the NIMs data collection, this section should co he methodology applied	ver all data provided in section G.(a)	in the "baseline data collection" template.
	<u> </u>	To mexicaciogy applies		
		Reference to external files, if relevant		
ii.	Description of the	ne methodology for keeping track of the products	produced	
7 Fall-b	ack sub-instal	lation:	Process emissions sub-ins	tallation, non-CL
	Detailed instru	etions for data entries in this tool can be foun	ad at the first convert this tool	(014)
(a)		ries of the sub-installation	id at the first copy of this tool	. (G.I.1)
	Information on t	he methodology applied		
	If this information	is already provided in sufficient detail in section C.II, ple	ase just include reference here to this	s section and proceed with the next points below.
		cternal files, if relevant		
		separate detailed flow diagram, if relevant		
(b)	For the specific pu	determination of annual activity levels urpose of the NIMs data collection, this section should co	ver all data provided in section G.(a)	in the "baseline data collection" template.
i.	Information on t	he methodology applied		
		Reference to external files, if relevant		
ii.	Description of the	ne methodology for keeping track of the products	produced	

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

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 throughut 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			

Delever d'Oelde e		0.00		
Delayed Coking	<u> </u>	2,20		
Fluid Coking	F	7,60		
Flexicoking	F	16,60		
Coke Calcining	Р	12,75		
Fluid Catalytic Cracking	F	5,50		
Other Catalytic Cracking	F	4,10		
Distillate / Gasoil	F	2,85		
Hydrocracking				
Residual Hydrocracking	F	3,75		
Naphtha/Gasoline	F	1,10		
Hydrotreating				
Kerosene/ Diesel Hydrotreating	F	0,90		
Residual Hydrotreating	F	1,55		
VGO Hydrotreating	F	0,90		
Hydrogen Production	Р	300,00		
Catalytic Reforming	F	4,95		
Alkylation	Р	7,25		
C4 Isomerisation	R	3,25		
C5/C6 Isomerisation	R	2,85		
Oxygenate Production	Р	5,60		
Propylene Production	F	3,45		
Asphalt Manufacture	Р	2,10		
Polymer-Modified Asphalt	Р	0,55		
Blending		·		
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	Р	6,40		
Metaxylene production	Р	11,10		
Phtalic anhydride production	Р	14,40		
Maleic anhydride production	Р	20,80		
Ethylbenzene production	Р	1,55		
Cumene production	Р	5,00		
Phenol production	<u>.</u> Р	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	'	12,00		
Lube/Wax Hydrotreating	F	1,15		
Lubo, wax riyurun balling		1,10		

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	urth		

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

II 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.

Dete course	Other data source (if	Other data source (if
Data source	applicable)	applicable)

•	re_Final draft_20190125.xlsx; H_SpecialBM			
	a. Composition data			
(c)	Further description			
	Reference to external files, if relevant			
(4)	The hierarchical order has been followed?	If not, why?		
(u)	Further details on any deviation from the hierarch			
	ruither details on any deviation from the filerator	іу		
Dali	line e			
ווטע	lime			
Tool	ol for calculating the historical activity levels for Dolime s	sub-installations		
	ol for calculating the historical activity levels for Dolime s Relevance of this tool in your installation:			
	ol for calculating the historical activity levels for Dolime s			
(a)	ol for calculating the historical activity levels for Dolime s Relevance of this tool in your installation: This message is automatically generated based on your inputs in sheet "C_Install			
(a)	Relevance of this tool in your installation: This message is automatically generated based on your inputs in sheet "C_Install	lationDescription", section C.I.	nex VII of the FAR.	
(a)	Relevance of this tool in your installation: This message is automatically generated based on your inputs in sheet "C_Install Information on the methodology applied Please select below the data source used for the properties of lime (CaO and MgC As more than one of the data sources might be involved, the template provides for	lationDescription", section C.I. O content) pursuant to section 4.6 of An		n main sources and describe further
(a)	Relevance of this tool in your installation: This message is automatically generated based on your inputs in sheet "C_Install Information on the methodology applied Please select below the data source used for the properties of lime (CaO and MgC).	lationDescription", section C.I. O content) pursuant to section 4.6 of An	rces are involved, please select the three	
(a)	Relevance of this tool in your installation: This message is automatically generated based on your inputs in sheet "C_Install Information on the methodology applied Please select below the data source used for the properties of lime (CaO and MgC As more than one of the data sources might be involved, the template provides for	lationDescription", section C.I. O content) pursuant to section 4.6 of An	Other data source (if	Other data source (if
(a)	Relevance of this tool in your installation: This message is automatically generated based on your inputs in sheet "C_Install Information on the methodology applied Please select below the data source used for the properties of lime (CaO and MgC As more than one of the data sources might be involved, the template provides for	Display to three sources. If even further sou	rces are involved, please select the three	
(a) (b)	Relevance of this tool in your installation: This message is automatically generated based on your inputs in sheet "C_Install Information on the methodology applied Please select below the data source used for the properties of lime (CaO and MgC As more than one of the data sources might be involved, the template provides for details in the description of the methodology below.	Display to three sources. If even further sou	Other data source (if	Other data source (if
(a) (b)	Relevance of this tool in your installation: This message is automatically generated based on your inputs in sheet "C_Install Information on the methodology applied Please select below the data source used for the properties of lime (CaO and MgC As more than one of the data sources might be involved, the template provides for details in the description of the methodology below. Composition data	Display to three sources. If even further sou	Other data source (if	Other data source (if
(a) (b)	Relevance of this tool in your installation: This message is automatically generated based on your inputs in sheet "C_Install Information on the methodology applied Please select below the data source used for the properties of lime (CaO and MgC As more than one of the data sources might be involved, the template provides for details in the description of the methodology below. Composition data	Display to three sources. If even further sou	Other data source (if	Other data source (if
(a) (b)	Relevance of this tool in your installation: This message is automatically generated based on your inputs in sheet "C_Install Information on the methodology applied Please select below the data source used for the properties of lime (CaO and MgC As more than one of the data sources might be involved, the template provides for details in the description of the methodology below. Composition data	Display to three sources. If even further sou	Other data source (if	Other data source (if
(a) (b)	Relevance of this tool in your installation: This message is automatically generated based on your inputs in sheet "C_Install Information on the methodology applied Please select below the data source used for the properties of lime (CaO and MgC As more than one of the data sources might be involved, the template provides for details in the description of the methodology below. Composition data Further description	Display to three sources. If even further sou	Other data source (if	Other data source (if
(a) (b)	Relevance of this tool in your installation: This message is automatically generated based on your inputs in sheet "C_Install Information on the methodology applied Please select below the data source used for the properties of lime (CaO and MgC As more than one of the data sources might be involved, the template provides for details in the description of the methodology below. Composition data Further description Reference to external files, if relevant	Data source	Other data source (if	Other data source (if
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(a) (b)	Relevance of this tool in your installation: This message is automatically generated based on your inputs in sheet "C_Install Information on the methodology applied Please select below the data source used for the properties of lime (CaO and MgC As more than one of the data sources might be involved, the template provides for details in the description of the methodology below. Composition data Further description Reference to external files, if relevant	Data source If not, why?	Other data source (if	Other data source (if

V	Stea	ım cracking					
1	Tool	for calculating the historical activity levels for steam cracking sub-installations					
	(a)	Relevance of this tool in your installation:					
	i	This message is automatically generated based on your inputs in sheet "C_Installa	tionDescription", section C.I.				
	(h)	Cumplemental food data:					
		Supplemental feed data: Please select below the data source used for the quantities of the supplemental fee	ed pursuant to section 4.4 of Annex VII o	of the FAR.			
		As more than one of the data sources might be involved, the template provides for details in the description of the methodology below.	up to three sources. If even further sou	rces are involved, please select the three	main sources and describe further		
			Data source	Other data source (if applicable)	Other data source (if applicable)		
		Hydrogen, ethylene and other HVC		,			
	(c)	Further description					
		Reference to external files, if relevant					
	(d)	The hierarchical order has been followed?	If not, why?				
	(ω)	Further details on any deviation from the hierarchy					
		Turner details on any deviation from the micraren	<u>y </u>				
/	CWI	Γ (Aromatics)					
			a and installations				
		for calculating the historical activity levels for aromatics	s sub-installations				
		Relevance of this tool in your installation:	the Base to the III and the O.I.				
		This message is automatically generated based on your inputs in sheet "C_Installa	tionDescription", 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	P	3,00			
Cumene production	Р	5,00			

4				4.
1) Further	decri	ntınn
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	Reference to external files, if relevant	
(d)	The hierarchical order has been followed?	not, why?
	Further details on any deviation from the 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 hierarc	chy		
Svn	nthesis gas			
	ol for calculating the historical activity levels for synthes	sis das sub-installations		
		sis gas sub-ilistaliations		
(a)	Relevance of this tool in your installation:			
		allationDescription". Section C.I.		
	This message is automatically generated based on your inputs in sheet "C_Insta			
(b.)				
(b)	Hydrogen volume fraction VF(H2)		₹.	
(b)	Hydrogen volume fraction VF(H2) Please select below the data source used for the hydrogen volume fraction pursu As more than one of the data sources might be involved, the template provides for	uant to section 4.6 of Annex VII of the FAI		e main sources and describe further
(b)	Hydrogen volume fraction VF(H2) Please select below the data source used for the hydrogen volume fraction pursu	uant to section 4.6 of Annex VII of the FAI	rces are involved, please select the three	
(b)	Hydrogen volume fraction VF(H2) Please select below the data source used for the hydrogen volume fraction pursu As more than one of the data sources might be involved, the template provides for	uant to section 4.6 of Annex VII of the FAI	rces are involved, please select the three Other data source (if	Other data source (if
(b)	Hydrogen volume fraction VF(H2) Please select below the data source used for the hydrogen volume fraction pursu As more than one of the data sources might be involved, the template provides for details in the description of the methodology below.	uant to section 4.6 of Annex VII of the FAI for up to three sources. If even further sou	rces are involved, please select the three	
(b)	Hydrogen volume fraction VF(H2) Please select below the data source used for the hydrogen volume fraction pursu As more than one of the data sources might be involved, the template provides for	uant to section 4.6 of Annex VII of the FAI for up to three sources. If even further sou	rces are involved, please select the three Other data source (if	Other data source (if
	Hydrogen volume fraction VF(H2) Please select below the data source used for the hydrogen volume fraction pursuance than one of the data sources might be involved, the template provides for details in the description of the methodology below. Total synthesis gas production Composition data	uant to section 4.6 of Annex VII of the FAI for up to three sources. If even further sou	rces are involved, please select the three Other data source (if	Other data source (if
	Hydrogen volume fraction VF(H2) Please select below the data source used for the hydrogen volume fraction pursu As more than one of the data sources might be involved, the template provides for details in the description of the methodology below. Total synthesis gas production	uant to section 4.6 of Annex VII of the FAI for up to three sources. If even further sou	rces are involved, please select the three Other data source (if	Other data source (if
	Hydrogen volume fraction VF(H2) Please select below the data source used for the hydrogen volume fraction pursuance than one of the data sources might be involved, the template provides for details in the description of the methodology below. Total synthesis gas production Composition data	uant to section 4.6 of Annex VII of the FAI for up to three sources. If even further sou	rces are involved, please select the three Other data source (if	Other data source (if
	Hydrogen volume fraction VF(H2) Please select below the data source used for the hydrogen volume fraction pursuance than one of the data sources might be involved, the template provides for details in the description of the methodology below. Total synthesis gas production Composition data	uant to section 4.6 of Annex VII of the FAI for up to three sources. If even further sou	rces are involved, please select the three Other data source (if	Other data source (if
	Hydrogen volume fraction VF(H2) Please select below the data source used for the hydrogen volume fraction pursuance than one of the data sources might be involved, the template provides for details in the description of the methodology below. Total synthesis gas production Composition data	uant to section 4.6 of Annex VII of the FAI for up to three sources. If even further sou	rces are involved, please select the three Other data source (if	Other data source (if
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(c)	Hydrogen volume fraction VF(H2) Please select below the data source used for the hydrogen volume fraction pursuals as more than one of the data sources might be involved, the template provides for details in the description of the methodology below. Total synthesis gas production Composition data Further description	uant to section 4.6 of Annex VII of the FAI for up to three sources. If even further sou	rces are involved, please select the three Other data source (if	Other data source (if
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(c)	Hydrogen volume fraction VF(H2) Please select below the data source used for the hydrogen volume fraction pursuas more than one of the data sources might be involved, the template provides for details in the description of the methodology below. Total synthesis gas production Composition data Further description Reference to external files, if relevant The hierarchical order has been followed?	uant to section 4.6 of Annex VII of the FAI for up to three sources. If even further sou Data source If not, why?	rces are involved, please select the three Other data source (if	Other data source (if

	sage is automatically generated base	d on your inputs in sheet "C_Installati	onDescription", section C.I.		
Please se As more	ction data of Ethylene oxide a elect below the data source used for the than one of the data sources might be the description of the methodology be	ne quantities of the supplemental feed involved, the template provides for u		of the FAR. Irces are involved, please select the three	main sources and describe furth
	,	CF(EOE)	Data source	Other data source (if applicable)	Other data source (applicable)
Ethylen	e oxide	1,000			
Monoe	thylene glycol	0,710			
	ene glycol	0,830			
Triethy	ene glycol	0,880			
Furthe	r description				
Furthe	·	I files if relevent			
	Reference to externa	,	If not, why?		
	Reference to externa erarchical order has been fol	lowed?	If not, why?		
	Reference to externa erarchical order has been fol	,	If not, why?		
	Reference to externa erarchical order has been fol	lowed?	If not, why?		

(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.

Doto course	Other data source (if	Other data source (if
Data source	applicable)	applicable)

MMP_template_Final draft_20190125.xlsx; H_SpecialBM

Quantification of heat from H2

(c) Further description

Reference to external files, if relevant

(d) The hierarchical order has been followed?

Further details on any deviation from the hierarchy

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

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Оросино				

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

To be defined by the Member State

	Navigation area:	Table of contents		
Comments	Top of sheet			
Comments				

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

Il 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