

CLIMATE NEUTRALITY PLAN

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Language version:	English
Reference filename:	CNP Template COM en 210224.xls

Information about this file:

Installation name:	Klippans Bruk AB
Unique Installation Identifier:	SE000000000000448
Reference date of the CNP:	8/19/2024

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

Date

Name and Signature of
legally responsible person

GUIDELINES AND CONDITIONS

General Information on this Template

- 1 Directive 2003/87/EC, as amended most recently by Directive 2023/959/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/2003/87/2023-06-05>
- 2 These Free Allocation Rules (hereinafter "the FAR") are contained in the Commission Delegated Regulation (EU) 2019/331. The FAR can be downloaded from: http://data.europa.eu/eli/reg_del/2019/331/oj
- 3 Article 10a(5) of the EU ETS Directive, together with Article 22b of the FAR, stipulates that the level of free allocation shall be reduced by 20 % if operators of installations whose greenhouse gas emission levels are higher than the 80th percentile of emission levels for the relevant product benchmarks (in 2016/2017) have not established a climate-neutrality plan (CNP) by May 2024 in accordance with Article 10b(4).
- 4 Furthermore, Article 10b(4) grants an additional 30% of free allocation to district heating in certain Member States, provided they also establish a CNP and that an investment volume equivalent to the value of that additional free allocation is invested to significantly reduce emissions before 2030
- 5 Pursuant to Article 10b(4), of the EU ETS Directive the Commission adopted the Implementing Regulation (EU) 2023/2441 (hereinafter "the CNP Regulation"), which specifies the minimum content and format of the CNP. The Regulation can be downloaded from: https://eur-lex.europa.eu/eli/reg_impl/2023/2441/oj
- 6 This is a template for the CNP and has been developed on behalf of the Commission by its consultants (Umweltbundesamt GmbH Austria). The views expressed in this file represent the views of the authors and not necessarily those of the European Commission.
- 7 **This is the final version of the CNP template, version of 21 February 2024.**

How to use this file

- 7 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.
- 8 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. |
- 9 Navigation panels on top of each sheet provide hyperlinks for quick jumps to individual input sections.
- 10 This template has been locked against data entry except for yellow fields. However, for transparency reasons, no password has been set. This allows for complete viewing of all formulae. When using this file for data entry, it is recommended to keep the protection in force. The sheets should only be unprotected for checking the validity of formulae. It is recommended to do this in a separate file.
- 11 **In order to protect formulae against unintended modifications, which usually lead to wrong and misleading results, it is of utmost importance NOT TO USE the CUT & PASTE.**
If you want to move data, first COPY and PASTE them, and thereafter delete the unwanted data in the old (wrong) place.
- 12 Data fields have not been optimized for numerical and other formats. However, sheet protection has been limited so as to allow you to use your own formats. In particular, you may decide about the number of decimal places displayed. The number of places is in principle independent from the precision of calculation. In principle the option "Precision as displayed" of MS Excel should be deactivated. For more details, consult MS Excel's "Help" function on this topic.
- 13 **DISCLAIMER: All formulae have been developed carefully and thoroughly. However, mistakes cannot be fully excluded. As described above, full transparency for checking the validity of calculations is ensured. Neither the authors of this file nor the European Commission can be held liable for eventual damages resulting from wrong or misleading results of the provided calculations. It is the full responsibility of the user of this file (i.e. the operator of an ETS installation) to ensure that correct data is reported to the competent authority.**

Member State specific information:

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

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: https://climate.ec.europa.eu/eu-action/eu-emissions-trading-system-eu-ets_en

Other Websites:

<to be provided by Member State>

Helpdesk:

<to be provided by Member State, if relevant>

Further guidance as provided by the Member State:



Periods at which the effectiveness of the climate neutrality plan is evaluated regarding greenhouse gas emissions reductions:							1 Year
Year of next effectiveness evaluations:	2025	2026	2027	2028	2029	2030	2031

B. INSTALLATION DATA**I 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 fulfilment of the climate neutrality plan conditionality of free allocation pursuant to Article 10b of the EU ETS Directive and Article 22b of the FAR Regulation. Furthermore this information might be notified to the European Commission in part or as a whole, if requested so, for the purpose of scrutinising the national implementation measures pursuant to Article 11(1) of the EU ETS Directive.

Please confirm consent to use information contained in this climate neutrality plan.

The operator of this installation confirms that this plan may be used by the competent authority and the European Commission.

The system boundaries and types of greenhouse gases covered by historical emissions, emissions levels and specific targets are consistent with the greenhouse gas emissions permit of the installation and the requirements laid down in the Monitoring and Reporting Regulation (EU) 2018/2066 (MRR) and in the FAR. This also applies when applying for additional allocation for district heating pursuant to Article 22b of the FAR.

The scope of emissions do not include any carbon removals or emission reductions outside the system boundaries of the installation and acquired via carbon offset credits.

Please confirm that the emissions entered comply with the conditions described above.

The operator of this installation confirms the conformity of the system boundaries of emissions.

II Identification of the Installation(s)**1 About the operator**

- (a) Operator Name Klippans Bruk AB
- (b) Member State Sweden
- (c) Emissions trading permit number member state/CA prefix 12-563-040900-2004
- (d) Competent Authority Naturvårdsverket
- (e) Is the climate neutrality plan submitted by a district heating company at company level? ☐

Point (e) is only relevant for district heating companies in Bulgaria, Czechia, Latvia or Poland.

If the climate neutrality plan is submitted at company level, historical emissions and targets are to be summed up over all installations covered by the climate neutrality plan and the totals are to be entered in sheets D_HistoricalEmissions and G_FallBackBM and H_OtherProcesses.

2 About your installation(s)

- (a) Name of the installation and ID
- i. Installation name: Klippans Bruk AB
- ii. Registry ID of the installation (as in NIMs): 448
- This is usually a natural number, i.e. a code different from the Permit identifier used in the Registry (EUTL).
- For example, if the Registry ID is BE000000000123456, please enter here 123456. Together with the Member State selected under (c), this Registry ID (unique ID) will be displayed automatically in (f)
- iii. Unique ID: SE0000000000000448

Include any Member State specific guidance on naming of installations.

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

- i. Address Line 1: Bruksallén 9
- ii. Address Line 2:
- iii. City: Klippan
- iv. State/Province/Region:
- v. Postcode/ZIP: 264 39
- vi. Country: Sweden

The following table is only relevant for district heating companies in Bulgaria, Czechia, Latvia or Slovakia, that submit the climate neutrality plan at company level.

Please list all additional installations linked to and operated by the operator and covered by the climate neutrality plan.

No.	Installation Name	Registry ID (as in NIMs)	Unique ID	Address	City	State/Province/Region	Postcode/ZIP	Country
2								
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4								
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8								
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10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

III Contact details

Who can we contact about your climate neutrality plan?

It will help us to have someone who we can contact directly with any questions about your climate neutrality plan. The persons you name should have the authority to act on behalf of the operator.

- (a) Authorised representative:
- Title: Mr
- First Name: Goran
- Surname: Fransson
- Job title: QHSE / HR Manager
- Organisation name (if different from the operator):
- Telephone number: 0435-29103
- Email address: goran.fransson@klippansbruk.se
- (b) Primary contact:
- Title:
- First Name:
- Surname:
- Job title:
- Organisation name (if different from the operator):
- Telephone number:
- Email address:

C. INSTALLATION DESCRIPTION

I List of sub-installations

1 Product benchmark sub-installations

Please select here all relevant product benchmark sub-installations, consistent with the ones provided in the baseline data report.

Please also list here any sub-installations that are planned to start operating after the submission of the CNP.

Where a sub-installation is planned to start operating or to cease operations after the submission of the CNP, please select the relevant period from the drop-down list, respectively. In case no entries are made, it is assumed that the sub-installation is already existing and will remain operational at least until 2050.

No.	Product type	Starting	Cessation?	CL exposed?	CBAM?	Unit
1	Tissue			TRUE	FALSE	tonnes
2						
3						
4						
5						
6						
7						
8						
9						
10						

2 Sub-installations with fall-back approaches

Please select here all relevant sub-installations with fall-back approaches, consistent with the ones provided in the baseline data report.

Please also list here any sub-installations that are planned to start operating after the submission of the CNP.

Where a sub-installation is planned to start operating or to cease operations after the submission of the CNP, please select the relevant period from the drop-down list, respectively. In case no entries are made, it is assumed that the sub-installation is already existing and will remain operational at least until 2050.

According to the Annex of the CNP Regulation, you may provide specific emissions in later sheets of this template relative to other units than the default units of the relevant activity, where more appropriate. For instance, you may want to provide specific emissions for a heat benchmark sub-installation per tonne of (aggregated) production, instead of per TJ.

Please enter the relevant unit of production in column N. If no entries are made there, the default units of TJ will be used for the heat and fuel benchmark sub-installations. For process emissions the default units will be tonnes of (aggregated) production.

No.	Sub-installation type	Relevant?	Starting	Cessation?	CL exposed?	CBAM?	Unit
11	Heat benchmark sub-installation, CL, non-CBAM	FALSE			TRUE	FALSE	
12	Heat benchmark sub-installation, non-CL, non-CBAM	FALSE			FALSE	FALSE	
13	Heat benchmark sub-installation, CBAM	FALSE			TRUE	TRUE	
14	District heating sub-installation	TRUE			FALSE	FALSE	
15	Fuel benchmark sub-installation, CL, non-CBAM	FALSE			TRUE	FALSE	
16	Fuel benchmark sub-installation, non-CL, non-CBAM	FALSE			FALSE	FALSE	
17	Fuel benchmark sub-installation, CBAM	FALSE			TRUE	TRUE	
18	Process emissions sub-installation, CL, non-CBAM	FALSE			TRUE	FALSE	
19	Process emissions sub-installation, non-CL, non-CBAM	FALSE			FALSE	FALSE	
20	Process emissions sub-installation, CBAM	FALSE			TRUE	TRUE	

3 Other processes not covered by sub-installations

The CNP Regulation requires the system boundaries to cover all relevant emissions of the installation determined in accordance with the Monitoring & Reporting Regulation (EU) 2018/2066. This means that emissions may be relevant that are not eligible for free allocation, e.g. electricity production or non-safety flaring.

Therefore, please provide here a short description of each process not covered by sub-installations and enter the relevant units of production. For example, for electricity production, you may want to enter production expressed as "MWh" of net electricity produced.

Where a process is planned to start operating or to cease operations after the submission of the CNP, please select the relevant period from the drop-down list, respectively. In case no entries are made, it is assumed that the sub-installation is already existing and will remain operational at least until 2050.

The processes identified here will be treated similarly to all other sub-installations above in subsequent sheets concerning measures, investments, milestones, targets and impacts.

No.	Short name or ID	Description of the process	Starting	Cessation?	CL exposed?	CBAM?	Units
21					N.A.	N.A.	
22					N.A.	N.A.	
23					N.A.	N.A.	

D. HISTORICAL EMISSIONS

I Specific historical emissions

1 Product benchmark sub-installations

Please enter here the specific historical emissions (consistent with the attributed emission pursuant to the FAR rules and the MRR) for each product benchmark sub-installation for each year of the baseline period.

The average of the specific historical emissions during 2019-2023 will be used as the baseline for setting (intermediate) targets in sheets F to H.

The specific emissions shall be calculated by dividing the attributed emissions by the activity level in each year, both based on the corresponding rules of the FAR in consistency with the data entered in the baseline data report used for calculation of free allocation for 2026-2030.

Years in which the sub-installation did not operate should be left empty, including for cases of new sub-installation planned to start operating only after the submission of the CNP. In the case of the later, please provide an estimate of the specific emissions at the future start of operations.

No.	Product type	Unit	2019	2020	2021	2022	2023	Estimate
1	Tissue	t CO ₂ e / t	0.6483	0.5575	0.5616	0.5342	0.5711	
2								
3								
4								
5								
6								
7								
8								
9								
10								

2 Sub-installations with fall-back approaches

Please enter here the specific historical emissions (consistent with the attributed emission pursuant to the FAR rules and the MRR) for each fall-back benchmark sub-installation for each year of the baseline period, taking into consideration the guidance provided for product benchmark sub-installations above.

However, where other units of production levels than the units for the relevant activity level were chosen in section C.I.2 (note, that the default unit for process emissions is tonnes of production), the emissions shall be expressed relative to those relevant (aggregated) production levels. The attributed emissions should however still be calculated in accordance with the corresponding FAR rules, consistent with the data provided in the baseline data report.

No.	Sub-installation type	Unit	2019	2020	2021	2022	2023	Estimate
11	Heat benchmark sub-installation, CL, non-CBAM	t CO ₂ e / TJ						
12	Heat benchmark sub-installation, non-CL, non-CBAM	t CO ₂ e / TJ						
13	Heat benchmark sub-installation, CBAM	t CO ₂ e / TJ						
14	District heating sub-installation	t CO ₂ e / TJ	57.24	56.77	55.53	55.73	56.02	
15	Fuel benchmark sub-installation, CL, non-CBAM	t CO ₂ e / TJ						
16	Fuel benchmark sub-installation, non-CL, non-CBAM	t CO ₂ e / TJ						
17	Fuel benchmark sub-installation, CBAM	t CO ₂ e / TJ						
18	Process emissions sub-installation, CL, non-CBAM	t CO ₂ e / t						
19	Process emissions sub-installation, non-CL, non-CBAM	t CO ₂ e / t						
20	Process emissions sub-installation, CBAM	t CO ₂ e / t						

3 Specific emissions not covered by sub-installations

Please enter here the specific historical emissions (consistent with the attributed emission pursuant to the FAR rules and the MRR) for each process not covered by a benchmarked sub-installation for each year of the baseline period, taking into consideration the guidance provided for product benchmark sub-installations above.

Please ensure that the emissions are specific to the relevant units of production chosen in section C.I.3. The attributed emissions should be calculated in accordance with the corresponding FAR rules, consistent with the data provided in the baseline data report.

No.	Emission source description	Unit	2019	2020	2021	2022	2023	Estimate
21								
22								
23								

II Absolute historical emissions (optional)

1 Product benchmark sub-installations absolute emissions

Please enter here the historical absolute emissions, expressed as t CO₂e, for each sub-installation for each year of the baseline period. Entries here are optional.

No.	Product type	Unit	2019	2020	2021	2022	2023	Estimate
1	Tissue	t CO ₂ e	7,716	11,470	10,586	6,949	5,831	
2								
3								
4								
5								
6								
7								
8								
9								
10								

2 Sub-installations with fall-back approaches absolute emissions

Please enter here the historical absolute emissions, expressed as t CO₂e, for each sub-installation for each year of the baseline period. Entries here are optional.

No.	Sub-installation type	Unit	2019	2020	2021	2022	2023	Estimate
11	Heat benchmark sub-installation, CL, non-CBAM	t CO ₂ e						
12	Heat benchmark sub-installation, non-CL, non-CBAM	t CO ₂ e						
13	Heat benchmark sub-installation, CBAM	t CO ₂ e						
14	District heating sub-installation	t CO ₂ e	162	239	221	146	121	
15	Fuel benchmark sub-installation, CL, non-CBAM	t CO ₂ e						
16	Fuel benchmark sub-installation, non-CL, non-CBAM	t CO ₂ e						
17	Fuel benchmark sub-installation, CBAM	t CO ₂ e						
18	Process emissions sub-installation, CL, non-CBAM	t CO ₂ e						
19	Process emissions sub-installation, non-CL, non-CBAM	t CO ₂ e						
20	Process emissions sub-installation, CBAM	t CO ₂ e						

3 Specific emissions not covered by sub-installations

Please enter here the historical absolute emissions, expressed as t CO₂e, for each sub-installation for each year of the baseline period. Entries here are optional.

No.	Emission source description	Unit	2019	2020	2021	2022	2023	Estimate
21								
22								
23								

E. MEASURES, INVESTMENTS AND MILESTONES

I Measures

1 Measure description and reasons

Please list here all relevant planned measures (e.g. electrification of fossil-powered furnaces) until 2050, providing for each measure the following information:

- the period during which the measure is planned to be taken. If a measure has impacts in more than one period, please select the period in which it will be first implemented;
- a short name or internal ID for each measure in order to facilitate making reference to each measure later in this template;
- a detailed description of each measure. It is possible to refer to an attached document file, if the description exceeds the space provided here (then please list the exact file name here and in sheet K_Comments).

Measures should be entered as aggregated as possible. E.g. process optimisations over different periods can be entered as one measure with the period of the first optimisation.

No.	Period	Short name or internal ID	Detailed description
Ex.1	2031-2035	Hydrogen steel	Replacement of BF/BOF with DRI using green hydrogen (further details see separate file 'CNP file.docx')
Ex.2	2025-2030	Measures AB 5 to 7	Process optimisations over different periods starting from 2027
ME1	<= 2025	Hållbara bränslen	Fossila bränslen ska delvis bytas ut mot hållbara bränslen
ME2	<= 2025	Hållbara bränslen	Ersätta ångbatterier med luft/luft värmepump
ME3	<= 2025	Minskat energibehov	Renovering av värmeväxlare för att minska behovet att värma processvattnet
ME4	2026-2030	Hållbara bränslen	Fossila bränslen ska delvis bytas ut mot hållbara bränslen
ME5			
ME6			
ME7			
ME8			
ME9			
ME10			

2 Enabling conditions and qualitative impacts

Please provide for each measure identified under 1) above the following information:

- a detailed description of enabling conditions and infrastructure needs (e.g. CO₂ pipeline infrastructure, green hydrogen infrastructure, H₂ costs below "x" €/MWh);
- a comprehensive reasoning for measure decision why the measures were chosen rather than other potential measures for decarbonisation;
- a qualitative assessment of the impacts of each measure (e.g. where this installation is the worldwide first to implement a certain decarbonisation technology, it demonstrates the feasibility of wider uptake by other installations). The quantitative assessment will be done later in the template in sheets F to H.

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

No.	Detailed description of enabling conditions	Reasons for measure decision	Qualitative impacts
ME1	Byte av insatsbränsle	Minska fossila utsläpp av koldioxid	
ME2	Ersätta ångbatterier med luft/luft värmepump	Minska fossila utsläpp av koldioxid	
ME3	Renovering av värmeväxlare	Minska energibehovet	
ME4	Ny fastbränslepanna	Minska fossila utsläpp av koldioxid	
ME5			
ME6			
ME7			
ME8			
ME9			
ME10			

3 Categorisation of measures

Please attribute each measure to one or more of the following types of GHG savings or decarbonisation technologies, as applicable:

- (i) switch to low- or zero-emission technologies
- (ii) energy efficiency and energy savings
- (iii) switch from fossil fuels to:
 - (1) hydrogen
 - (2) electricity
 - (3) biomass fulfilling the sustainability and greenhouse gas savings criteria referred to in Article 38(5) of Implementing Regulation (EU) 2018/2066
 - (4) alternative fuels from waste streams
 - (5) other sources of renewable energy
- (iv) resource efficiency, including reduced consumption of materials and recycling
- (v) carbon capture utilisation and storage
- (vi) other

No.	(i) switch to low- or zero-emission technologies	(ii) energy efficiency and energy savings	(iii) (1) hydrogen	(iii) (2) electricity	(iii) (3) sust. Biomass	(iii) (4) to alternative fuels	(iii) (5) other sources of renewable energy	(iv) resource efficiency, etc.	(v) carbon capture utilisation and storage	(vi) other
ME1	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE
ME2	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
ME3	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
ME4	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE
ME5										
ME6										
ME7										
ME8										
ME9										
ME10										

II Investments

1 Investment

Please list here all investments providing the following information:

- the year in which the investment is planned to be taken (where appropriate, investments may be combined as 5-year averages will be calculated under point 2. below);
- a short name or internal ID for each investment in order to facilitate making reference to each investment later in this template;
- the corresponding investment costs in mio. € (best estimate at the time of preparing the CNP). This value should be expressed as the one-off investment costs, annualising will be done automatically under point 2) below;
- a detailed description of each investment. It is possible to refer to an attached document file, if the description exceeds the space provided here (then please list the exact file name here and in sheet K_Comments).

No.	Year	Short name or internal ID	Costs in M€	Detailed description of investments
Ex.1	2032	New electric furnaces	152	Purchase and installation of electric furnaces (further details see separate file 'CNP file.docx')
IN1	<= 2025	Renovering värmewäxlare	0	Renovering av värmewäxlaren till PM9
IN2	<= 2025	Ny värmepump	0	Ersätta ångbatterier med luft/luft värmepump i verkstad och sprinklerum
IN3	2030	Ny fastbränslepanna	13	Inköp och installation av ny fastbränslepanna
IN4				
IN5				
IN6				
IN7				
IN8				
IN9				
IN10				

2 Investments annualised Euros

The annualised Euros per year for each five-year period are automatically calculated based on the inputs under point 1) above.

Period	<= 2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050
Annualised M€	N.A.	2.60	0.00	0.00	0.00	0.00

III Milestones

Please list here all milestones providing the following information:

- the year in which the milestone is planned to be reached;
- a detailed description of each milestone;
- the relevant measure for each milestone. Please select them from the drop-down list or, where more than one measure is relevant, enter corresponding information in the form of "ME1, ME3", etc.

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

Milestones shall be commensurate to the targets entered in the following sheets.

No.	Period	Detailed description of the milestones	Measure(s)
Ex.1	2031-2035	Final investment decision taken (further details see separate file 'CNP file.docx')	ME1: New electric furnaces
Ex.2	2031-2035	Dismantling of old furnaces (further details see separate file 'CNP file.docx')	ME1, ME3
MI1	<= 2025	Byte av insatsbränsle	ME1: Hållbara bränslen
MI2	<= 2025	Ersätta ångbatterier med luft/luft värmepump	ME2: Hållbara bränslen
MI3	<= 2025	Renovering av värmeväxlare	ME3: Minskat energibehov
MI4	2026-2030	Ny fastbränslepanna	ME4: Hållbara bränslen
MI5			
MI6			
MI7			
MI8			
MI9			
MI10			
MI11			
MI12			
MI13			
MI14			
MI15			
MI16			
MI17			
MI18			
MI19			
MI20			
MI21			
MI22			
MI23			
MI24			
MI25			
MI26			
MI27			
MI28			
MI29			
MI30			

IV Measures and investments prior to submission of the CNP (optional)

Optionally, you may list and describe all measures and investments already implemented prior to the submission of the climate-neutrality plan.

1	
2	
3	
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10	

2								
3								
4								
5								
6								
7								
8								
9								
10								
iii	Reduction compared to baseline (100% = values under i.)							
iv	Consistency check (= iii. / i.)							
v	Consistency check (error message)							
(d)	Any further comments							

3 Sub-installation with product benchmark:

The name of the product benchmark sub-installation is displayed automatically based in the inputs in sheet "C_InstallationDescription".

(a) Specific emission targets

Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.

The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets								
ii. Absolute emission targets		t CO2e						

(b) Relative emission targets

The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value							

(c) Split of specific emission reduction by measure and investment

Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.

For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.

Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under ii. equals the specific reduction under i.

Following the entries made in sections C.1 and E.1.1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:

- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1 ME1: Process optimisations over	IN1, IN3		100%	100%	50%	20%	
Ex.2 ME2: New furnace	IN2: New furnace				70%	80%	100%
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
iii. Reduction compared to baseline (100% = values under i.)							
iv. Consistency check (= iii. / i.)							
v. Consistency check (error message)							

(d) Any further comments

--

4 Sub-installation with product benchmark:

The name of the product benchmark sub-installation is displayed automatically based in the inputs in sheet "C_InstallationDescription".

(a) Specific emission targets

Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.

The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets								
ii. Absolute emission targets		t CO2e						

(b) Relative emission targets

The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value							

(c) Split of specific emission reduction by measure and investment

Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.

For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.

Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under ii. equals the specific reduction under i.

Following the entries made in sections C.1 and E.1.1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:

- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1 ME1: Process optimisations over IN1, IN4			100%	100%	50%	20%	
Ex.2 ME2: New furnace	IN2: New furnace				70%	60%	100%
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
iii. Reduction compared to baseline (100% = values under i.)							
iv. Consistency check (= iii. / i.)							
v. Consistency check (error message)							
(d) Any further comments							

5 Sub-installation with product benchmark:

The name of the product benchmark sub-installation is displayed automatically based on the inputs in sheet "C_installationDescription".

(a) **Specific emission targets**
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets								
ii. Absolute emission targets		t CO2e						

(b) **Relative emission targets**
The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value							

(c) **Split of specific emission reduction by measure and investment**
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under iii. equals the specific reduction under i.
Following the entries made in sections C.1 and E.1.1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:

- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1 ME1: Process optimisations over IN1, IN4			100%	100%	50%	20%	
Ex.2 ME2: New furnace	IN2: New furnace				70%	60%	100%
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
iii. Reduction compared to baseline (100% = values under i.)							
iv. Consistency check (= iii. / i.)							
v. Consistency check (error message)							
(d) Any further comments							

6 Sub-installation with product benchmark:

The name of the product benchmark sub-installation is displayed automatically based on the inputs in sheet "C_installationDescription".

(a) **Specific emission targets**
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets								
ii. Absolute emission targets		t CO2e						

(b) **Relative emission targets**

The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value							

(c) Split of specific emission reduction by measure and investment
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under ii. equals the specific reduction under i.
Following the entries made in sections C I and E I 1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:

- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1 ME1: Process optimisations over	IN1, IN3		100%	100%	30%	20%	
Ex.2 ME2: New furnace	IN2: New furnace				70%	80%	100%
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
iii. Reduction compared to baseline (100% = values under i.)							
iv. Consistency check (= iii. / i.)							
v. Consistency check (error message)							

(d) Any further comments

7 Sub-installation with product benchmark:

The name of the product benchmark sub-installation is displayed automatically based in the inputs in sheet "C_InstallationDescription".

(a) Specific emission targets
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.
The baseline is automatically calculated based on the input of historical emissions in sheet D, Historical Emissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets								
ii. Absolute emission targets		t CO2e						

(b) Relative emission targets
The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value							

(c) Split of specific emission reduction by measure and investment
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under iii. equals the specific reduction under i.
Following the entries made in sections C I and E I 1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:

- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1 ME1: Process optimisations over	IN1, IN3		100%	100%	30%	20%	
Ex.2 ME2: New furnace	IN2: New furnace				70%	80%	100%
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
iii. Reduction compared to baseline (100% = values under i.)							
iv. Consistency check (= iii. / i.)							
v. Consistency check (error message)							

(d) Any further comments

8 Sub-installation with product benchmark:

The name of the product benchmark sub-installation is displayed automatically based in the inputs in sheet "C_InstallationDescription".

(a) Specific emission targets
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets								
ii. Absolute emission targets		t CO2e						

(b) Relative emission targets
The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value							

(c) Split of specific emission reduction by measure and investment
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under ii. equals the specific reduction under i.
Following the entries made in sections C I and E I 1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:
- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex 1 ME1: Process optimisations over	IN1, IN3		100%	100%	30%	20%	
Ex 2 ME2: New furnace	IN2: New furnace				70%	80%	100%
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
iii. Reduction compared to baseline (100% = values under i.)							
iv. Consistency check (= iii. / i.)							
v. Consistency check (error message)							

(d) Any further comments

9 Sub-installation with product benchmark:

The name of the product benchmark sub-installation is displayed automatically based in the inputs in sheet "C_InstallationDescription".

(a) Specific emission targets
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets								
ii. Absolute emission targets		t CO2e						

(b) Relative emission targets
The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value							

(c) Split of specific emission reduction by measure and investment
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under ii. equals the specific reduction under i.
Following the entries made in sections C I and E I 1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:
- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex 1 ME1: Process optimisations over	IN1, IN3		100%	100%	30%	20%	
Ex 2 ME2: New furnace	IN2: New furnace				70%	80%	100%
1							
2							
3							
4							
5							

10
Sub-installation with product benchmark:

The name of the product benchmark sub-installation is displayed automatically based in the inputs in sheet "C_InstallationDescription"

(a)
Specific emission targets

Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets								
ii. Absolute emission targets		1 CO2e						

(b)
Relative emission targets

The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value							

(c)
Split of specific emission reduction by measure and investment

Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under iii. equals the specific reduction under i.
Following the entries made in sections C.i and E.i.1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.
The consistency check under v. will prompt an error message in the following cases:
- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1 IN1: Process optimisations (val)	IN1: IN3	100%	100%	100%	80%	20%	
Ex.2 IN2: New furnace	IN2: New furnace				70%	80%	100%
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
iii. Reduction compared to baseline (100% = values under i.)							
iv. Consistency check (= iii. / i.)							
v. Consistency check (error message)							

(d)
Any further comments

G. Targets & Impacts Fall-backs

Quantitative impact assessment fall-backs

1

Fall-back sub-installation:

Heat benchmark sub-installation, CL, non-CBAM

not relevant

The name of the product benchmark sub-installation is displayed automatically based in the inputs in sheet "C_InstallationDescription"

(a) Specific emission targets

Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.

The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets		t CO2e / TJ						
ii. Absolute emission targets		t CO2e						

(b) Relative emission targets

The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value t CO2e / TJ	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value							

(c) Split of specific emission reduction by measure and investment

Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.

For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.

Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under iii. equals the specific reduction under i.

Following the entries made in sections C.I and E.I 1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:

- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value t CO2e / TJ	2025 t CO2e / TJ	2030 t CO2e / TJ	2035 t CO2e / TJ	2040 t CO2e / TJ	2045 t CO2e / TJ	2050 t CO2e / TJ
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1	ME1: Process optimisations over	IN1, IN3	100%	100%	8%	20%	
Ex.2	ME2: New furnace	IN2: New furnace			70%	80%	100%
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
iii. Reduction compared to baseline (100% = values under i.)							
iv. Consistency check (= iii. / i.)							
v. Consistency check (error message)							

(d) Any further comments

[illegible]

2								
3								
4								
5								
6								
7								
8								
9								
10								
iii	Reduction compared to baseline (100% = values under i.)							
iv	Consistency check (= iii. / i.)							
v	Consistency check (error message)							
(d)	Any further comments							

3	Fall-back sub-installation:	Heat benchmark sub-installation, CBAM	not relevant
The name of the product benchmark sub-installation is displayed automatically based on the inputs in sheet "C_InstallationDescription".			
(a) Specific emission targets			
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.			
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.			
	Baseline	Unit	2025 2030 2035 2040 2045 2050
i.	Specific emission targets	t CO2e / TJ	
ii.	Absolute emission targets	t CO2e	
(b) Relative emission targets			
The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.			
		Reference value	2025 2030 2035 2040 2045 2050
i.	Relative to baseline value	t CO2e / TJ	
ii.	Relative to relevant BM value		
(c) Split of specific emission reduction by measure and investment			
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.			
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.			
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under ii. equals the specific reduction under i.			
Following the entries made in sections C.1 and E.1.1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.			
The consistency check under v. will prompt an error message in the following cases:			
- no targets are set before a cessation or targets are set after a cessation; - impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero; - the impacts do not add up to 100%.			
		Reference value	2025 2030 2035 2040 2045 2050
i.	Specific reduction (target versus baseline)	t CO2e / TJ	
ii.	Measure	Investment	
Ex.1	ME1: Process optimisations over	IN1, IN3	
Ex.2	ME2: New furnace	IN2: New furnace	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
iii	Reduction compared to baseline (100% = values under i.)		
iv	Consistency check (= iii. / i.)		
v	Consistency check (error message)		
(d)	Any further comments		

4	Fall-back sub-installation:	District heating sub-installation	relevant
The name of the product benchmark sub-installation is displayed automatically based on the inputs in sheet "C_InstallationDescription".			
(a) Specific emission targets			
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.			
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.			
	Baseline	Unit	2025 2030 2035 2040 2045 2050
i.	Specific emission targets	t CO2e / TJ	56.257 0.000 0.000 0.000 0.000 0.000
ii.	Absolute emission targets	t CO2e	178
(b) Relative emission targets			
The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.			
		Reference value	2025 2030 2035 2040 2045 2050
i.	Relative to baseline value	t CO2e / TJ	56.2570 100% 0% 0% 0% 0%
ii.	Relative to relevant BM value		47.3000 119% 0% 0% 0% 0%
(c) Split of specific emission reduction by measure and investment			
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.			
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.			
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under iii. equals the specific reduction under i.			

Following the entries made in sections C.I and E.I.1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:

- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value	2025	2030	2035	2040	2045	2050
	t CO ₂ e / TJ	t CO ₂ e / TJ	t CO ₂ e / TJ	t CO ₂ e / TJ	t CO ₂ e / TJ	t CO ₂ e / TJ	t CO ₂ e / TJ
i. Specific reduction (target versus baseline)	-56.2570	0.000	-56.257	-56.257	-56.257	-56.257	-56.257
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1 ME1: Process optimisations over	IN1, IN3		100%	100%	30%	20%	
Ex.2 ME2: New furnace	IN2: New furnace				70%	80%	100%
1 ME4: Hållbara bränslen	IN3: Ny fastbränslepanna		100%	100%	100%	100%	100%
2							
3							
4							
5							
6							
7							
8							
9							
10							
iii. Reduction compared to baseline (100% = values under i.)			-56.257	-56.257	-56.257	-56.257	-56.257
iv. Consistency check (= iii. / i.)			100%	100%	100%	100%	100%
v. Consistency check (error message)	Inconsistent!						
(d) Any further comments							

5 Fall-back sub-installation:		Fuel benchmark sub-installation, CL, non-CBAM	not relevant
The name of the product benchmark sub-installation is displayed automatically based in the inputs in sheet "C_InstallationDescription".			
(a) Specific emission targets			
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.			
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.			
	Baseline	Unit	2025 2030 2035 2040 2045 2050
i. Specific emission targets		t CO ₂ e / TJ	
ii. Absolute emission targets		t CO ₂ e	
(b) Relative emission targets			
The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.			
	Reference value		2025 2030 2035 2040 2045 2050
i. Relative to baseline value	t CO ₂ e / TJ		
ii. Relative to relevant BM value			
(c) Split of specific emission reduction by measure and investment			
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.			
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.			
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under iii. equals the specific reduction under i.			
Following the entries made in sections C.I and E.I.1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.			
The consistency check under v. will prompt an error message in the following cases:			
- no targets are set before a cessation or targets are set after a cessation;			
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;			
- the impacts do not add up to 100%.			
	Reference value		2025 2030 2035 2040 2045 2050
i. Specific reduction (target versus baseline)	t CO ₂ e / TJ	t CO ₂ e / TJ	t CO ₂ e / TJ
ii. Measure	Investment	2025	2030 2035 2040 2045 2050
Ex.1 ME1: Process optimisations over	IN1, IN3		100% 100% 30% 20%
Ex.2 ME2: New furnace	IN2: New furnace		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
iii. Reduction compared to baseline (100% = values under i.)			
iv. Consistency check (= iii. / i.)			
v. Consistency check (error message)			
(d) Any further comments			

6 Fall-back sub-installation:		Fuel benchmark sub-installation, non-CL, non-CBAM	not relevant
The name of the product benchmark sub-installation is displayed automatically based in the inputs in sheet "C_InstallationDescription".			
(a) Specific emission targets			
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.			
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.			
	Baseline	Unit	2025 2030 2035 2040 2045 2050
i. Specific emission targets		t CO ₂ e / TJ	
ii. Absolute emission targets		t CO ₂ e	
(b) Relative emission targets			

The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value t CO ₂ e / TJ	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value							

(c) Split of specific emission reduction by measure and investment
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under ii. equals the specific reduction under i.
Following the entries made in sections C I and E I 1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:

- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value t CO ₂ e / TJ	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1 ME1: Process optimisations over	IN1, IN3		100%	100%	30%	20%	
Ex.2 ME2: New furnace	IN2: New furnace				70%	80%	100%
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
iii. Reduction compared to baseline (100% = values under i.)							
iv. Consistency check (= iii. / i.)							
v. Consistency check (error message)							

(d) Any further comments

7 Fall-back sub-installation:

The name of the product benchmark sub-installation is displayed automatically based on the inputs in sheet "C_InstallationDescription".

	Fuel benchmark sub-installation, CBAM	not relevant						
(a) Specific emission targets								
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.								
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.								
	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets		t CO ₂ e / TJ						
ii. Absolute emission targets		t CO ₂ e						
(b) Relative emission targets								
The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.								
	Reference value t CO ₂ e / TJ	2025	2030	2035	2040	2045	2050	
i. Relative to baseline value								
ii. Relative to relevant BM value								
(c) Split of specific emission reduction by measure and investment								
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.								
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.								
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under iii. equals the specific reduction under i.								
Following the entries made in sections C I and E I 1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.								
	Reference value t CO ₂ e / TJ	2025	2030	2035	2040	2045	2050	
i. Specific reduction (target versus baseline)								
ii. Measure	Investment	2025	2030	2035	2040	2045	2050	
Ex.1 ME1: Process optimisations over	IN1, IN3		100%	100%	30%	20%		
Ex.2 ME2: New furnace	IN2: New furnace				70%	80%	100%	
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
iii. Reduction compared to baseline (100% = values under i.)								
iv. Consistency check (= iii. / i.)								
v. Consistency check (error message)								
(d) Any further comments								

10

Fall-back sub-installation:

Process emissions sub-installation, CBAM

not relevant

The name of the product benchmark sub-installation is displayed automatically based on the inputs in sheet "C_InstallationDescription".

(a)

Specific emission targets

Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.

The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets		t CO2e / t						
ii. Absolute emission targets		t CO2e						

(b)

Relative emission targets

The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value t CO2e / t	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value							

(c)

Split of specific emission reduction by measure and investment

Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.

For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.

Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under iii. equals the specific reduction under i.

Following the entries made in sections C.I and E.I.1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:

- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value t CO2e / t	2025 t CO2e / t	2030 t CO2e / t	2035 t CO2e / t	2040 t CO2e / t	2045 t CO2e / t	2050 t CO2e / t
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1 MC1: Process optimisations over	IN1: IN3		100%	100%	30%	20%	
Ex.2 MC2: New furnace	IN2: New furnace				70%	80%	100%
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
iii. Reduction compared to baseline (100% = values under i.)							
iv. Consistency check (= iii. / i.)							
v. Consistency check (error message)							

(d)

Any further comments

H. Targets & Impacts other processes

I Quantitative impact assessment other processes

1 Other processes:

The name of the product benchmark sub-installation is displayed automatically based on the inputs in sheet "C_InstallationDescription".

(a) Specific emission targets
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets								
ii. Absolute emission targets		t CO2e						

(b) Relative emission targets
The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

(c) Split of specific emission reduction by measure and investment
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under ii. equals the specific reduction under i.
Following the entries made in sections C.I and E.I.1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:
- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1 ME1: Process optimisations over	IN1: IN3		100%	100%	30%	20%	
Ex.2 ME2: New furnace	IN2: New furnace				70%	80%	100%
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
iii. Reduction compared to baseline (100% = values under i.)							
iv. Consistency check (= iii. / I.)							
v. Consistency check (error message)							

(d) Any further comments

2 Other processes:

The name of the product benchmark sub-installation is displayed automatically based on the inputs in sheet "C_InstallationDescription".

(a) Specific emission targets
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets								
ii. Absolute emission targets		t CO2e						

(b) Relative emission targets
The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

(c) Split of specific emission reduction by measure and investment
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under ii. equals the specific reduction under i.
Following the entries made in sections C.I and E.I.1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:
- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1 ME1: Process optimisations over	IN1: IN3		100%	100%	30%	20%	
Ex.2 ME2: New furnace	IN2: New furnace				70%	80%	100%
1							

3

Other processes:

The name of the product benchmark sub-installation is displayed automatically based in the inputs in sheet "C_InstallationDescription".

(a)

Specific emission targets

Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.

The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets								
ii. Absolute emission targets		t CO2e						

(b)

Relative emission targets

The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

(c)

Split of specific emission reduction by measure and investment

Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.

For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments". Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.

Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under iii. equals the specific reduction under i.

Following the entries made in sections C.I and E.I.1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:

- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)							
ii. Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1 ME1: Process optimisations over	IN1, IN3		100%	100%	30%	20%	
Ex.2 ME2: New furnace	IN2: New furnace				70%	80%	100%
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
iii. Reduction compared to baseline (100% = values under i.)							
iv. Consistency check (= iii. / I.)							
v. Consistency check (error message)							

(d)

Any further comments

I. SUMMARY

I General information about the CNP

(a) About the operator

Operator Name	Klippans Bruk AB	
Member State	Sweden	
Emissions trading permit number	member state/CA prefix	12-563-040900-2004
Competent Authority	Naturvårdsverket	
CNP submitted by DH company at company level		
The operator of this installation confirms that this plan may be used by the competent authority and the European Commission.		
The operator of this installation confirms the conformity of the system boundaries of emissions.		

(b) About the installation(s)

No.	Installation Name	Registry ID (as in NIMs)	Unique ID	Address	City	State/Province/Region	Postcode/ZIP	Country
1	Klippans Bruk AB	448	SE0000000000000448	Bruksallén 9	Klippan		264 39	Sweden
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

II Historical emissions

No.	Product type	Unit	2019	2020	2021	2022	2023	Estimate
1	Tissue	t CO ₂ e / t	0.648	0.558	0.562	0.534	0.571	0.000
2								
3								
4								
5								
6								
7								
8								
9								
10								
11	Heat benchmark sub-installation, CL, non-CBAM	TJ						
12	Heat benchmark sub-installation, non-CL, non-CBAM	TJ						
13	Heat benchmark sub-installation, CBAM	TJ						
14	District heating sub-installation	TJ	57.24	56.77	55.53	55.73	56.02	0.00
15	Fuel benchmark sub-installation, CL, non-CBAM	TJ						
16	Fuel benchmark sub-installation, non-CL, non-CBAM	TJ						
17	Fuel benchmark sub-installation, CBAM	TJ						
18	Process emissions sub-installation, CL, non-CBAM	t CO ₂ e						
19	Process emissions sub-installation, non-CL, non-CBAM	t CO ₂ e						
20	Process emissions sub-installation, CBAM	t CO ₂ e						
21								
22								
23								

III Specific targets relative to the relevant benchmark and to the baseline value

(a) Specific targets relative to the relevant benchmark values

No.	Product type	BM value	2025	2030	2035	2040	2045	2050
1	Tissue	0.2540	128%	0%	0%	0%	0%	0%
2								
3								
4								
5								
6								
7								
8								
9								
10								
11	Heat benchmark sub-installation, CL, non-CBAM							
12	Heat benchmark sub-installation, non-CL, non-CBAM							
13	Heat benchmark sub-installation, CBAM							
14	District heating sub-installation	47.30	119%	0%	0%	0%	0%	0%
15	Fuel benchmark sub-installation, CL, non-CBAM							
16	Fuel benchmark sub-installation, non-CL, non-CBAM							
17	Fuel benchmark sub-installation, CBAM							
18	Process emissions sub-installation, CL, non-CBAM							
19	Process emissions sub-installation, non-CL, non-CBAM							
20	Process emissions sub-installation, CBAM							
21								
22								
23								

(b) Specific targets relative to the average specific emissions during the baseline

No.	Product type	Baseline	2025	2030	2035	2040	2045	2050
1	Tissue	0.5745	57%	0%	0%	0%	0%	0%
2								
3								
4								
5								
6								
7								
8								
9								
10								
11	Heat benchmark sub-installation, CL, non-CBAM							

(a) Measures	<= 2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050
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IV Details for measures, investments & milestones

No.	Period	Short name or internal ID	Detailed description
ME1	<= 2025	Hållbara bränslen	Fossila bränslen ska delvis bytas ut mot hållbara bränslen
ME2	<= 2025	Hållbara bränslen	Ersätta ångbatterier med luft/luft värmepump
ME3	<= 2025	Minskat energibehov	Renovering av värmeväxlare för att minska behovet att värma processvattnet
ME4	2026-2030	Hållbara bränslen	Fossila bränslen ska delvis bytas ut mot hållbara bränslen
ME5			
ME6			
ME7			
ME8			
ME9			
ME10			

No.	Detailed description of enabling conditions	Reasons for measure decision	Qualitative impacts
ME1	Byte av insatsbränsle	Minska fossila utsläpp av koldioxid	
ME2	Ersätta ångbatterier med luft/luft värmepump	Minska fossila utsläpp av koldioxid	
ME3	Renovering av värmeväxlare	Minska energibehovet	
ME4	Ny fastbränslepanna	Minska fossila utsläpp av koldioxid	
ME5			
ME6			
ME7			
ME8			
ME9			
ME10			

[illegible]

ME7									
ME8									
ME9									
ME10									

(b) Investments

No.	Year	Short name or internal ID	Costs in M€	Detailed description of investments						
IN1	<= 2025	Renovering värmepårlare	0.026	Renovering av värmepårlaren till PM9						
IN2	<= 2025	Ny värmepump	0.013	Ersätta ångbatterier med luft/luft värmepump i verkstad och sprinklerum						
IN3	2030	Ny fastbrånslepanna	13	Inköp och installation av ny fastbrånslepanna						
IN4										
IN5										
IN6										
IN7										
IN8										
IN9										
IN10										
Period				<= 2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	
Annualised M€				N.A.	2.60	0.00	0.00	0.00	0.00	

(c) Milestones

No.	Period	Detailed description of the milestones	Measure(s)
MI1	<= 2025	Byte av insatsbränsle	ME1: Hållbara bränslen
MI2	<= 2025	Ersätta ångbatterier med luft/luft värmepump	ME2: Hållbara bränslen
MI3	<= 2025	Renovering av värmepump	ME3: Minskat energibehov
MI4	2026-2030	Ny fastbränslepanna	ME4: Hållbara bränslen
MI5			
MI6			
MI7			
MI8			
MI9			
MI10			
MI11			
MI12			
MI13			
MI14			
MI15			
MI16			
MI17			
MI18			
MI19			
MI20			
MI21			
MI22			
MI23			
MI24			
MI25			
MI26			
MI27			
MI28			
MI29			
MI30			

V Sub-installation data

1 Sub-installation with product benchmark:

		Tissue					
	Reference value	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value	t CO ₂ e / t	57%	0%	0%	0%	0%	0%
ii. Targets relative to relevant BM value	0.5745	128%	0%	0%	0%	0%	0%
	Reference value	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline	t CO ₂ e / t	-0.250	-0.575	-0.575	-0.575	-0.575	-0.575
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1 ME1: Hållbara bränslen	no investments	50%	33%	33%	33%	33%	33%
2 ME2: Hållbara bränslen	IN2: Ny värmepump	49%	33%	33%	33%	33%	33%
3 ME3: Minskat energibehov	IN1: Renovering värmepump	1%	1%	1%	1%	1%	1%
4 ME4: Hållbara bränslen	IN3: Ny fastbränslepanna	0%	33%	33%	33%	33%	33%
5							
6							
7							
8							
9							
10							
TOTAL		100%	100%	100%	100%	100%	100%
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1 ME1: Hållbara bränslen	no investments	-22%	-33%	-33%	-33%	-33%	-33%
2 ME2: Hållbara bränslen	IN2: Ny värmepump	-21%	-33%	-33%	-33%	-33%	-33%
3 ME3: Minskat energibehov	IN1: Renovering värmepump	0%	-1%	-1%	-1%	-1%	-1%
4 ME4: Hållbara bränslen	IN3: Ny fastbränslepanna	0%	-33%	-33%	-33%	-33%	-33%
5							
6							
7							
8							
9							
10							
TOTAL		-43%	-100%	-100%	-100%	-100%	-100%

2 Sub-installation with product benchmark:

	Reference value	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							
	Reference value	2025	2030	2035	2040	2045	2050

iii. Absolute specific reduction versus baseline							
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

3 Sub-installation with product benchmark:

	Reference value	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							
	Reference value	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

4 Sub-installation with product benchmark:

	Reference value	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							
	Reference value	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							

8							
9							
10							
	TOTAL						

5 Sub-installation with product benchmark:

	Reference value	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							
	Reference value	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

6 Sub-installation with product benchmark:

	Reference value	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							
	Reference value	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

7 Sub-installation with product benchmark:

	Reference value	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							
	Reference value	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							

6							
7							
8							
9							
10							
		TOTAL					

v. Impact share of each measure (100% = reference value during baseline, point i.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
		TOTAL					

8 Sub-installation with product benchmark:

		Reference value	2025	2030	2035	2040	2045	2050
i.	Targets relative to baseline value							
ii.	Targets relative to relevant BM value							
		Reference value	2025	2030	2035	2040	2045	2050
iii.	Absolute specific reduction versus baseline							

iv. Impact share of each measure (100% = value under point iii.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
		TOTAL					

v. Impact share of each measure (100% = reference value during baseline, point i.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
		TOTAL					

9 Sub-installation with product benchmark:

		Reference value	2025	2030	2035	2040	2045	2050
i.	Targets relative to baseline value							
ii.	Targets relative to relevant BM value							
		Reference value	2025	2030	2035	2040	2045	2050
iii.	Absolute specific reduction versus baseline							

iv. Impact share of each measure (100% = value under point iii.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
		TOTAL					

v. Impact share of each measure (100% = reference value during baseline, point i.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
		TOTAL					

10 Sub-installation with product benchmark:

	Reference value	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							
	Reference value	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

11 Fall-back sub-installation:

		Heat benchmark sub-installation, CL, non-CBAM				not relevant	
	Reference value	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value	t CO ₂ e / TJ						
ii. Targets relative to relevant BM value							
	Reference value	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline	t CO ₂ e / TJ						
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

12 Fall-back sub-installation:

		Heat benchmark sub-installation, non-CL, non-CBAM				not relevant	
	Reference value	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value	t CO ₂ e / TJ						
ii. Targets relative to relevant BM value							
	Reference value	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline	t CO ₂ e / TJ						
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

13 Fall-back sub-installation:

		Heat benchmark sub-installation, CBAM				not relevant	
	Reference value t CO ₂ e / TJ	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							

	Reference value t CO ₂ e / TJ	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							

iv. Impact share of each measure (100% = value under point iii.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

v. Impact share of each measure (100% = reference value during baseline, point i.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

14 Fall-back sub-installation:

		District heating sub-installation				relevant	
	Reference value t CO ₂ e / TJ	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value	56.257	100%	0%	0%	0%	0%	0%
ii. Targets relative to relevant BM value	47.3	119%	0%	0%	0%	0%	0%

	Reference value t CO ₂ e / TJ	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline	56.257	0.0	-56.257	-56.257	-56.257	-56.257	-56.257

iv. Impact share of each measure (100% = value under point iii.)

Measure	Investments	2025	2030	2035	2040	2045	2050
ME4: Hållbara bränslen	IN3: Ny fastbränslepanna	0%	100%	100%	100%	100%	100%
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL		0%	100%	100%	100%	100%	100%

v. Impact share of each measure (100% = reference value during baseline, point i.)

Measure	Investments	2025	2030	2035	2040	2045	2050
ME4: Hållbara bränslen	IN3: Ny fastbränslepanna	0%	-100%	-100%	-100%	-100%	-100%
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL		0%	-100%	-100%	-100%	-100%	-100%

15 Fall-back sub-installation:

		Fuel benchmark sub-installation, CL, non-CBAM				not relevant	
	Reference value t CO ₂ e / TJ	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							

	Reference value t CO ₂ e / TJ	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							

iv. Impact share of each measure (100% = value under point iii.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

v. Impact share of each measure (100% = reference value during baseline, point i.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

16 Fall-back sub-installation:**Fuel benchmark sub-installation, non-CL, non-CBAM****not relevant**

	Reference value	2025	2030	2035	2040	2045	2050
	t CO ₂ e / TJ						
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							
	Reference value						
	t CO ₂ e / TJ						
iii. Absolute specific reduction versus baseline							

iv. Impact share of each measure (100% = value under point iii.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

v. Impact share of each measure (100% = reference value during baseline, point i.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

17 Fall-back sub-installation:**Fuel benchmark sub-installation, CBAM****not relevant**

	Reference value	2025	2030	2035	2040	2045	2050
	t CO ₂ e / TJ						
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							
	Reference value						
	t CO ₂ e / TJ						
iii. Absolute specific reduction versus baseline							

iv. Impact share of each measure (100% = value under point iii.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

v. Impact share of each measure (100% = reference value during baseline, point i.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							

9							
10							
	TOTAL						

18 Fall-back sub-installation:

		Process emissions sub-installation, CL, non-CBAM				not relevant	
	Reference value t CO ₂ e / t	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							
	Reference value t CO ₂ e / t	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

19 Fall-back sub-installation:

		Process emissions sub-installation, non-CL, non-CBAM				not relevant	
	Reference value t CO ₂ e / t	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							
	Reference value t CO ₂ e / t	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

20 Fall-back sub-installation:

		Process emissions sub-installation, CBAM				not relevant	
	Reference value t CO ₂ e / t	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value							
	Reference value t CO ₂ e / t	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							

7							
8							
9							
10							
		TOTAL					
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
		TOTAL					

21 Other processes:

						not relevant	
	Reference value	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Reference value	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
		TOTAL					
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
		TOTAL					

22 Other processes:

						not relevant	
	Reference value	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value							
ii. Targets relative to relevant BM value	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Reference value	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							
iv. Impact share of each measure (100% = value under point iii.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
		TOTAL					
v. Impact share of each measure (100% = reference value during baseline, point i.)							
Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
		TOTAL					

23 Other processes:

						not relevant	
	Reference value	2025	2030	2035	2040	2045	2050

i. Targets relative to baseline value							
ii. Targets relative to relevant BM value	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Reference value						
		2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline							

iv. Impact share of each measure (100% = value under point iii.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

v. Impact share of each measure (100% = reference value during baseline, point i.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL							

I. MS specific	Navigation area:	Table of contents			

I. ADDITIONAL DATA REQUIREMENTS BY THE MEMBER STATE

I To be defined by the Member State

K. COMMENTS AND FURTHER INFORMATION

I Documents supporting this report

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

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

File name/Reference	Document description

II Free space for all kinds of supplemental information

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