

COMMISSION IMPLEMENTING REGULATION (EU) 2020/1208 of 7 August 2020 on structure, format, submission processes and review of information reported by Member States pursuant to Regulation (EU) 2018/1999

Incorporated and adapted by the Ministerial Council Decision 2021/14/MC-EnC of 30 November 2021 on incorporating Regulation (EU) 2018/1999 in the Energy Community acquis communautaire and amending Annex I of the Treaty.

The adaptations made by Ministerial Council Decision 2021/14/MC-EnC are highlighted in bold and blue.

CHAPTER I SUBJECT MATTER, SCOPE AND DEFINITIONS

Article 1

Subject matter

This Regulation establishes rules implementing Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** as regards the following:

- (a) **Contracting Parties'** reporting on national adaptation actions, the use of **carbon price mechanism** revenues and financial and technology support provided to developing countries pursuant to Article 19 of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**;
- (b) **Contracting Parties'** reporting on approximated greenhouse gas (or GHG) inventories, greenhouse gas inventories and accounted greenhouse gas emissions and removals pursuant to Article 26 of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**;
- (c) requirements on the establishment, operation and functioning of national inventory systems pursuant to Article 37 of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**;
- (d) the timing and the procedure for carrying out the comprehensive review pursuant to Article 38 of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**;
- (e) **Contracting Parties'** reporting on national system for policies and measures and projections pursuant to Article 39 of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**.

Article 2

Scope

This Regulation applies to the reports submitted by the **Contracting Parties** containing data required for the year **2023** onwards.

Article 3

Definitions

For the purposes of this Regulation, the following definitions shall apply:

- (1) 'common reporting table', or 'CRT', means a table for information on anthropogenic greenhouse gas emissions by sources and removals by sinks included in Annex II to Decision 24/CP.19 of the Conference of the Parties to the United Nations Framework Convention on Climate Change (UNFCCC) (Decision 24/CP.19);
- (2) 'reference approach' means the reference approach by the Intergovernmental Panel on Climate Change (IPCC), as set out in the 2006 IPCC Guidelines for National Greenhouse Gas Inventories ('2006 IPCC Guidelines');
- (3) 'approach 1' means the basic method for the estimation of uncertainties included in the 2006 IPCC Guidelines;
- (4) 'key category' means a category which has a significant influence on a **Contracting Party's** or the **Energy Community** total inventory of greenhouse gases in terms of the absolute level of emissions and removals, the trend in emissions and removals, or uncertainty in emissions and removals;
- (5) 'sectoral approach' means the IPCC sectoral approach as set out in the 2006 IPCC Guidelines;
- (6) 'outline for greenhouse gas inventory documents' means the outline set out in the Appendix to the UNFCCC reporting guidelines on annual greenhouse gas inventories as included in Annex I to Decision 24/CP.19.;
- (7) 'transparency MPGs' means the modalities, procedures and guidelines for the transparency framework for action and support referred to in Article 13 of the Paris Agreement, as set out in in the Annex to Decision 18/CMA.1 of the Conference of the Parties to the UNFCCC serving as meeting of the Parties to the Paris Agreement;
- (8) 'greenhouse gas inventory guidelines' mean guidelines specified in Article 3 of the Commission Delegated Regulation (EU) 2020/1044 (9), **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**;
- (9) 'recalculation' is a procedure for re-estimating, in accordance with the greenhouse gas inventory guidelines anthropogenic GHG emissions by sources and removals by sinks of previously submitted GHG inventories as a consequence of changes in methodologies, changes in the manner in which emission factors and activity data are obtained and used, or the inclusion of new source and sink categories.

CHAPTER II

REPORTING BY **CONTRACTING PARTIES** ON NATIONAL ADAPTATION ACTIONS, **CARBON PRICE MECHANISM REVENUES** AND SUPPORT TO DEVELOPING COUNTRIES

Article 4

Information on national adaptation actions

Contracting Parties shall report the information on their national adaptation actions pursuant to Article 19(1) of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in accordance with the format set out in Annex I to this Regulation.

Article 5

Information on the use of carbon price mechanism revenues

Contracting Parties shall report the information on the use of revenues generated by **carbon price mechanisms** pursuant to Article 19(2) of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in accordance with the formats set out in Annex II to this Regulation.

Article 6

Information on financial and technology support provided to developing countries

1. **Contracting Parties** shall report the quantitative information on public and mobilised financial resources referred to in point (a)(i) and available information on activities by the Member State related to public-funded technology transfer projects and capacity-building projects for developing countries under the UNFCCC referred to in point (a)(iii) of Part 2 of Annex VIII to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**, in accordance with the common tabular format introduced by the Organisation for Economic Cooperation and Development (OECD) Development Assistance Committee for reporting to the Creditor Reporting System (CRS) or the formats set out in Annex III to this Regulation.
2. **Contracting Parties** shall report the qualitative methodological information explaining the method used to calculate the quantitative information referred to in point (a)(ii) of Part 2 of Annex VIII to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in accordance with the format set out in Annex IV to this Regulation.
3. **Contracting Parties** shall report available information on the planned provision of support referred to in point (b) of Part 2 of Annex VIII to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in accordance with the format set out in Annex V to this Regulation.

CHAPTER III

REPORTING BY **CONTRACTING PARTIES** ON APPROXIMATED GREENHOUSE GAS INVENTORIES, GREENHOUSE GAS INVENTORIES AND ACCOUNTED GREENHOUSE GAS EMISSIONS AND REMOVALS

Article 7

Reporting on approximated greenhouse gas inventories

- (a) 1. **Contracting Parties** shall report their approximated greenhouse gas inventories pursuant to Article 26(2) of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in accordance with the format set out in Annex VI, at a level of disaggregation of categories reflecting the activity data and methods available for the preparation of estimates for the year X-1;
- (b) <...>
2. **Contracting Parties** shall provide explanations including on the main drivers for the key changes in emissions and removals reported in accordance with the format set out in Annex VI compared to the most recent final greenhouse gas inventory reported.

Article 8

General rules for reporting on greenhouse gas inventories

1. **Contracting Parties** shall report the information referred to in Article 26(3) of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** by completing, in accordance with the greenhouse gas inventory guidelines and with the rules provided for in this Regulation:
- (a) the common reporting tables by providing a complete set of spread sheets or Extensible Markup Language (XML) files, depending on the availability of the appropriate software, and covering **Contracting Party's** geographical scope under Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**;
- (b) the information as specified in Articles 9 to 23 of this Regulation.
2. **Contracting Parties** shall draft the national inventory report referred to in Article 26(3) of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** ('national inventory report', 'NIR') based on the outline for greenhouse gas inventory documents, and following the rules provided for in this Regulation. **Contracting Parties** shall include the information reported pursuant to Articles 9, 10, 12 and 14 to 18 of this Regulation in the national inventory report or in a separate Annex to the national inventory report and indicate clearly in accordance with Annex VII where the information is provided.

Article 9**Reporting on recalculations**

Contracting Parties shall report the reasons for recalculations of greenhouse gas emissions and removals referred to in point (d) of Part 1 of Annex V to Regulation (EU) 2018/1999 in the years 1990, 2005 and X-3; how the time series consistency for all reported years is maintained in writing in the form of a draft of the dedicated summary chapter on recalculations of the national inventory report.

Article 10**Reporting on implementation of recommendations**

1. **Contracting Parties** shall report the information on the steps taken to improve inventory estimates referred to in point (g) of Part 1 of Annex V to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in accordance with the formats set out in Annex VIII to this Regulation.
2. In their reports referred to in paragraph 1, **Contracting Parties** shall cover both issues raised for the first time in the most recent respective review reports and issues repeated from previous review reports.

Article 11**Reporting on inventory methods, emission factors and on related methodological descriptions for Energy Community key categories**

1. **Contracting Parties** shall provide the following information for the preparation of the **Energy Community** inventory report referred to in point (m) of Part 1 of Annex V of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**:
 - (a) summary information on the methods and emission factors used for the **Energy Community's** key categories within the relevant XML files of the common reporting tables;
 - (b) for those **Energy Community** key categories, where information on methods and emission factors is not contained in the common reporting tables, information in accordance with Part 3 of Annex IX of this Regulation;
 - (c) updated summary methodological descriptions for the **Energy Community's** key categories in accordance with the format set out in Part 4 of Annex IX.
2. For the purpose of reporting under paragraph 1, the **Energy Community Secretariat** shall provide the **Contracting Parties** with the following:
 - (a) the list of the most recent **Energy Community's** key categories by 31 October in accordance with the format set out in Part 1 of Annex IX;
 - (b) the updated list referred to in paragraph 2(a) with changes highlighted by 28 February;
 - (c) where available, information on inventory methods, emission factors and on summary methodological descriptions by 31 October in accordance with the format set out in Part 2 of Annex IX;
 - (d) the updated information referred to in paragraph 2(c) by 28 February.

Article 12**Reporting on uncertainty and completeness**

1. **Contracting Parties** shall report at least approach 1 uncertainty estimates referred to in point (m) of Part 1 of Annex V to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in accordance with the format set out in Annex X to this Regulation.
2. **Contracting Parties shall** report the information on the general assessment of completeness referred to in point (m) of Part 1 of Annex V to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in the national inventory report, specifying:
 - (a) the categories, which were reported as not estimated (NE), as defined in the transparency MPGs, and detailed explanations for the use of this notation key especially where the greenhouse gas inventory guidelines provide methods for estimation of greenhouse gases;
 - (b) the geographical coverage of the greenhouse gas inventory, and any differences between the geographical coverage under the UNFCCC and the Paris Agreement and under Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**.

Article 13**Reporting on indicators**

Contracting Parties shall report information on indicators referred to in point (e) of Part 1 of Annex V to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in accordance with the format set out in Annex XI.

Article 14**Reporting on consistency of reported emissions <...>**

1. **Contracting Parties** shall report the information referred to in point (h) of Part 1 of Annex V to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in accordance with the format set out in Annex XII to this Regulation.
2. **Contracting Parties** shall report the information on results of the checks referred to in point (i) of Part 1 of Annex V of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in a textual format.

Article 15

<...>

Article 16**Reporting on consistency of the data reported on fluorinated greenhouse gases**

Contracting Parties who have incorporated Regulation (EU) 517/2014 shall report the information on the results of the checks referred to in point (j)(ii) of Part 1 of Annex V to

Regulation (EU) 2018/1999 in a textual format, specifying:

- (a) the checks performed by the Member State concerning the level of detail, the data sets and the submissions compared;
- (b) the main results of the checks and explanations for the main inconsistencies;
- (c) whether the data collected by operators under Article 6(1) of Regulation (EU) No 517/2014 of the European Parliament and of the Council ⁽¹⁰⁾ were made use of and how;
- (d) the reasons why the checks were not considered to be relevant, where those checks were not performed.

Article 17**Reporting on consistency with energy statistics**

1. **Contracting Parties** shall report information on the results of the checks referred to in point (j)(iii) of Part 1 of Annex V to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in a textual format, specifying the differences between the reference approach calculated on the basis of the data included in the greenhouse gas inventory and the reference approach calculated on the basis of the energy statistics reported pursuant to Article 4 and Annex B to Regulation (EC) No 1099/2008 of the European Parliament and of the Council (11).

2. **Contracting Parties** shall report the quantitative information and explanations for differences of more than $\pm 2\%$ in the total national apparent fossil fuel consumption at aggregate level for all fossil fuel categories for the year X-2 referred to in paragraph 1 in accordance with Annex XIV to this Regulation.

Article 18**Reporting on changes in descriptions of national inventory systems or registries**

Contracting Parties shall clearly state in the relevant chapters of the national inventory report if there were no changes in the description of their national inventory systems or, if applicable, of their national registries referred to in points (k) and (l) of Part 1 of Annex V to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** since the previous submission of the national inventory report.

Article 19

<...>

Article 20

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Article 21

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Article 22

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Article 23

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Article 24

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Article 25

Timescales for cooperation and coordination in preparing the Energy Community greenhouse gas inventory <...>

1. **Contracting Parties** and the **Energy Community Secretariat** shall cooperate and coordinate in preparing the **Energy Community** greenhouse gas inventory and of the **Energy Community** inventory report in accordance with the timescales set out in Annex XXI.
2. When a **Contracting Party** re-submits its inventory to the UNFCCC Secretariat that **Contracting Party** shall provide the **Energy Community Secretariat** with a summary of the changes made in the re-submitted inventory, no later than within one week of the re-submission.
3. <...>

CHAPTER IV

REQUIREMENTS ON THE ESTABLISHMENT, OPERATION AND FUNCTIONING OF NATIONAL INVENTORY SYSTEMS

Article 26

Functions of national inventory systems

In the implementation of the national inventory systems pursuant to Article 37 of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**, each **Contracting Party** shall:

- (a) establish and maintain the institutional, legal and procedural arrangements necessary to perform the functions pursuant to Articles 27 to 29, between the government agencies and other entities responsible for the performance of all functions;
- (b) ensure sufficient capacity for timely performance of the functions pursuant to Articles 27 to 29, including data collection for estimating anthropogenic GHG emissions by sources and removals by sinks and arrangements for technical competence of the staff involved in the inventory development process.

Article 27

Inventory planning

1. As part of its inventory planning, each **Contracting Party** shall:

- (a) designate a single national entity with overall responsibility for the national inventory and make available its postal and electronic addresses;
- (b) define and allocate specific responsibilities in the inventory development process, including those relating to choice of methods, data collection, particularly activity data and emission factors from statistical services and other entities, processing and archiving, and quality control and quality assurance;
- (c) elaborate an inventory quality assurance and quality control plan which describes specific quality control procedures to be implemented during the inventory development process, facilitate the overall quality assurance procedures to be conducted and establish quality objectives;
- (d) consider establishing processes for the official consideration and approval of the inventory, if relevant including any recalculations, prior to its submission and to respond to any issues raised by the inventory review processes.

2. As part of its inventory planning, each **Contracting Party** shall where relevant consider ways to improve the quality of activity data, emission factors, methods and other relevant technical elements of inventories. Information obtained from the implementation of the quality assurance and quality control plan, from reviews under Article 19 of Regulation (EU) No 525/2013, Article 38 of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** and under the UNFCCC shall where appropriate be considered in the development and/or revision of the quality assurance and quality control plan and the quality objectives.

Article 28

Inventory preparation

1. In accordance with the greenhouse gas inventory guidelines, each **Contracting Party** shall:
 - (a) identify key categories and prepare estimates applying appropriate methods to estimate emissions and removals from key categories;
 - (b) collect sufficient activity data, process information and emission factors necessary to support the methods selected for estimating anthropogenic GHG emissions by sources and removals by sinks;
 - (c) make a quantitative estimate of inventory uncertainty for each category and for the inventory in total and prepare recalculations of previously submitted estimates of anthropogenic GHG emissions by sources and removals by sinks;
 - (d) compile the national inventory and implement general inventory quality control procedures in accordance with their quality assurance and quality control plan.
2. As part of its inventory preparation, each **Contracting Party** shall where appropriate:
 - (a) apply category-specific quality control procedures for key categories and for individual categories where significant methodological and/or data revisions have occurred, in accordance with the greenhouse gas inventory guidelines;
 - (b) provide for a basic review of the inventory by an independent third party or personnel not involved in the inventory development,, before the submission of the inventory, in accordance with the planned quality assurance procedures referred to in Article 27(1)(c);
 - (c) provide for a more extensive review for key categories and categories where significant changes in methods occurred;
 - (d) based on the reviews according to the transparency MPGs and in accordance with Article 38 of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** and periodic internal evaluations of the inventory preparation process, re-evaluate the inventory planning process in order to meet the established quality objectives referred to in Article 27(1)(c) of this Regulation.

Article 29

Inventory management

1. As part of their inventory management, each **Contracting Party** shall:
 - (a) each year for the reported time series, archive inventory information including: all disaggregated emission factors, activity data, and documentation about how these were generated and aggregated; internal documentation on quality assurance and quality control procedures, external and internal reviews, documentation on annual key sources and key source identification and planned inventory improvements.
 - (b) provide review teams under the transparency MPGs and Article 38 of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** with access to all archived information used by the Member State to prepare the inventory, taking into account country-specific confidentiality rules.

- (c) respond to requests for clarifying inventory information resulting from the different stages of the review processes of the inventory information, and information on the national system, in a timely manner.
2. As part of their inventory management, each **Contracting Party** shall where appropriate make the collection of archived information easily accessible

CHAPTER V

PROCEDURE AND SCHEDULE FOR CARRYING OUT THE COMPREHENSIVE REVIEW

Article 30

Procedure for the comprehensive review

1. When conducting the comprehensive review (or 'review') referred to in Article 38(1) of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**, the **Energy Community Secretariat** and the European Environment Agency shall be assisted by a technical experts review team and follow the procedure set out in Annex XXII.
2. The European Environment Agency shall perform the secretarial tasks for the comprehensive reviews as specified in Annex XXII.
3. The **Energy Community Secretariat**, assisted by the European Environment Agency, shall select a sufficient number of review experts to cover the appropriate inventory sectors. The review experts selected shall have experience in the area of greenhouse gas inventories compilation and, where possible, be active in greenhouse gas review processes. Technical experts who have contributed to the compilation of an individual **Contracting Party's** greenhouse gas inventory, or are national of that **Contracting Party**, shall not take part in the review of that inventory.
4. The comprehensive reviews shall be carried out as desk-based and centralized reviews, as specified in Annex XXII. In addition, in-country visits may be organised upon recommendation of the technical experts review team and in consultation with the **Contracting Party** concerned.
5. The checks pursuant to Article 38(2)(b) of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** shall include, where appropriate, information specified in Annex XXII.
6. The checks referred to in Article 38(2)(c) of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** shall include, where appropriate, a detailed examination on consistency of the accounted emissions and removals with Union rules.
7. The comprehensive reviews shall include, where appropriate, checks to identify whether areas of improvement identified for one **Contracting Party** in the UNFCCC or **Energy Community** reviews may also constitute an area of improvement for other **Contracting Parties**.
8. The review of greenhouse gas inventories shall be performed consistently for all **Contracting Parties** concerned and in an objective manner.

Article 31

Technical corrections

1. A technical correction of an emission estimate within the meaning of Article 38(2)(d) of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** shall be deemed necessary if an underestimate or overestimate exceeds the threshold of significance established in paragraph 2 of this Article. Details of the technical corrections are specified in Annex XXII to this Regulation.
2. The threshold of significance for a given source or sink amounts to 0,05 % of a **Contracting Party's** total national greenhouse gas emissions without LULUCF for the year of the inventory under review, or 500 kt CO₂ equivalent, whichever is smaller.
3. In response to a finding by the **Energy Community Secretariat** communicated to a **Contracting Party** during the review, the **Contracting Party** may request a change of their estimates of emissions or accounted emissions and removals by providing revised estimates. If a revised estimate is deemed appropriate by the technical review team, it shall be included in the review report referred to in Article 32 and accompanied by a justification.

Article 32

Final review reports

The **Energy Community Secretariat** shall inform the **Contracting Party** concerned of the end of the comprehensive review and provide the **Contracting Party** with a final review report by 30 August 2027 and 30 August 2032 respectively.

Article 33

Cooperation with Contracting Parties

1. **Contracting Parties** shall:
 - (a) participate in the review pursuant to the schedule set out in Annex XXII;
 - (b) nominate a National contact point for the **Energy Community's** review;
 - (c) participate in and facilitate the organisation of an in-country visit, if needed;
 - (d) provide answers and additional information and comment on the review reports as relevant.
2. Upon request by the **Contracting Parties**, the **Energy Community Secretariat** shall include comments regarding the review findings in the final review report referred to in Article 32.
3. The **Energy Community Secretariat** shall inform the **Contracting Parties** of the composition of the technical experts review team selected pursuant to Article 30.

Article 34**Schedule for the comprehensive reviews**

The comprehensive review shall be carried out pursuant to the time schedule set out in Annex XXII.

CHAPTER VI POLICIES AND MEASURES AND PROJECTIONS

Article 35**Submission processes for reporting**

Contracting Parties shall use the e-platform referred to in Article 28 of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** and linked tools and templates of the Commission, assisted by the European Environment Agency pursuant to Article 42 of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**, for the submission of the information pursuant to this Chapter.

Article 36**Reporting on national systems for policies and measures and projections**

Contracting Parties shall provide the description of their national systems for reporting on policies and measures, or groups of measures, and projections referred to in point (a) of Annex VI to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in the format set out in Annex XXIII to this Regulation.

Article 37**Reporting on national policies and measures**

1. **Contracting Parties** shall report the information on their national policies and measures, or groups of measures, referred to in point (c) of Annex VI to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in the formats set out in Annex XXIV to this Regulation.
2. **Contracting Parties** shall report the following information in a textual format:
 - (a) the updates relevant to their long-term strategies referred to in point (b) of Annex VI to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**;
 - (b) planned additional policies and measures referred to in point (d) of Annex VI to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**;
 - (c) links between different policies and measures and the contribution of those policies and measures to different projection scenarios, as referred to in point (e) of Annex VI to Regulation (EU) 2018/1999 **as**

adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC.

Article 38

Reporting on national projections

1. **Contracting Parties** shall report the information on their national projections of anthropogenic greenhouse gas emissions by sources and removals by sinks, organised by gas or group of gases, referred to in Article 18(1)(b) and point (a) of Annex VII of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in the format set out in Annex XXV to this Regulation.

2. **Contracting Parties** shall provide the additional information on their national projections of anthropogenic greenhouse gas emissions by sources and removals by sinks referred to in Annex VII to Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC** in a textual format, specifying:

(a) <...>

(b) the results of the sensitivity analysis performed pursuant to point (d) of Annex VII of Regulation (EU) 2018/1999;

(1) for the total reported greenhouse gas emissions, together with a brief explanation of which parameters were varied and how;

(2) <...>

(c) the year of the inventory data (base year) and the year of the inventory report used as a starting point for the projections;

(d) the methodologies used for the projections, including a brief description of the models used and their sectoral, geographical and temporal coverage, references to further information on the models and information on data sources, key exogenous assumptions and on the parameters used; pursuant to point (e) of Annex VII of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**.

3. In the reports on projections to be provided pursuant to Article 18(1) of Regulation (EU) 2018/1999 **as adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC**, **Contracting Parties** shall take into account the harmonised values for key parameters for projections – at least for oil, gas, and coal import prices as well as for carbon prices under **national mechanism or carbon price mechanism** – which the **Secretariat** has recommended, in consultation with the Contracting Parties, 12 months before the deadline for submission of the reports.

CHAPTER VII TRANSITIONAL AND FINAL PROVISIONS

Article 39

<...>

Article 40

<...>

Article 41

Entry into force and application

This decision shall enter into force on the date of its adoption.

ANNEX I

Information on national adaptation actions pursuant to Article 4

1. National circumstances, impacts, vulnerabilities, risks and adaptive capacity¹

1.1 National circumstances relevant to adaptation actions:

- a) biogeophysical characteristics;
- b) demographics;
- c) economy and infrastructure.

1.2 Climate monitoring and modelling framework:

- a) main activities on climate monitoring, modelling, projections and scenarios;
- b) main approaches, methodologies and tools, and associated uncertainties and challenges.

1.3 Assessment of climate impacts, vulnerability and risks, including adaptive capacity:

- a) overview of observed climate hazards among the ones listed in Table 1² and existing pressures³;
- b) identification of key future climate hazards from the ones listed in Table 1 and key affected sectors⁴

Table 1 - Classification of climate-related hazards⁵

Temperature-related	Wind-related	Water-related	Solid mass-related
Changing temperature (air, freshwater, marine water)	Changing wind patterns	Changing precipitation patterns and types (rain, hail, snow/ice)	Coastal erosion
		Precipitation and/or hydrological variability	Soil degradation (including de
Temperature variability		Ocean acidification	Soil erosion
Permafrost thawing		Saline intrusion	Solifluction
		Sea level rise	
		Change in sea ice cover	
		Water scarcity	
Heat wave	Cyclone	Drought	Avalanche

¹ 'Adaptive capacity' as defined in the Fifth Assessment Report of the United Nations Intergovernmental Panel on Climate Change (IPCC AR5): 'The ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or to respond to consequences.'

² The list is not exhaustive.

³ **Contracting Parties** shall report existing environmental, economic and social pressures that are likely to be significantly affected by climate change: e.g. loss of biodiversity, poor harvest, energy poverty, unemployment, migration.

⁴ **Contracting Parties** shall select key sectors among the following: Agriculture and food, biodiversity (including ecosystem-based approaches), buildings, coastal areas, civil protection and emergency management, energy, finance and insurance, forestry, health, marine and fisheries, transport, urban, water management, ICT (information and communications technology), land use planning, business, industry, tourism, rural development, other (please specify).

⁵ Where relevant, **Contracting Parties** shall also consider secondary effects of these hazards, such as forest fires, spread of invasive species and tropical diseases, cascading effects, and multiple hazards occurring at the same time.

Cold wave/frost	Storm (including blizzards, dust and sand storms)	Heavy precipitation (rain, hail, snow/ice)	Landslide
Wildfire	Tornado	Flood (coastal, fluvial, pluvial, ground water, flash)	Subsidence
		Snow and ice load	
		Glacial lake outburst	

c) For each key affected sector, overview of the following, rated on qualitative scales of high/medium/low/not applicable, with accompanying explanation as appropriate⁶:

- i. observed impacts of key hazards, including changes in frequency and magnitude;
- ii. likelihood of the occurrence of key hazards and exposure to them under future climate, drawing upon the best available climate modelling science;
- iii. vulnerability, including adaptive capacity;
- iv. risk of potential future impacts.

2. Legal and policy frameworks and institutional arrangements

2.1 Legal and policy frameworks and regulations, including National Adaptation Strategies (NAS), National Adaptation Plans (NAP)⁷ and any sectoral adaptation plans.

2.2 Overview of institutional arrangements and governance at the national level for:

- a) assessing climate vulnerability and risks;
- b) planning, implementing, monitoring, evaluating and revising adaptation policy⁸;
- c) integrating climate change impacts and resilience into environmental assessment procedures;
- d) collection, ownership and re-use of relevant data (such as climate-related disaster loss data or risk data) and access to it;
- e) integrating climate change impacts and adaptation planning into disaster risk management frameworks and vice versa⁹.

2.3 Overview of institutional arrangements and governance at the sub-national¹⁰ (¹⁰) level:

- a) legal requirements and strategic documents;
- b) networks or other collaborations on adaptation across national authorities;
- c) good practice examples of networks or other collaborations on adaptation across local and regional authorities.

6 The analysis outlined in points (i) to (iv) shall apply the best available science for vulnerability and risk analysis by the Intergovernmental Panel on Climate Change and the latest Commission guidance on the climate proofing of the Union-funded projects.

7 **Contracting Parties** shall report the title, year of adoption and status [superseded / adopted / completed and submitted for adoption / being developed] of each NAS and NAP.

8 Aspects to consider include decision making, planning and coordination related to adaptation strategies, policies, plans and goals, addressing cross-cutting issues, adjusting adaptation priorities and activities, implementing adaptation actions, including facilitating action to avert, minimise and address the adverse effect of climate change.

9 <...>

10 Throughout the Annex, 'sub-national' refers to local and regional.

3. *Adaptation strategies, policies, plans and goals*

3.1 Adaptation priorities

3.2 Challenges, gaps and barriers to adaptation¹¹

3.3 Summaries of national strategies, policies, plans and efforts, with a focus on goals and objectives, foreseen actions¹², budget and timeline¹³

3.4 Overview of the content of sub-national strategies, policies, plans and efforts

3.5 Overview of efforts to integrate climate change adaptation into sectoral policies, plans and programs, including disaster risk management strategies and action plans

3.6 Stakeholder engagement

Overview of measures in adaptation policy at the national level and good practice examples from the sub-national levels to engage with:

- a) stakeholders particularly vulnerable to climate change impacts;
- b) the private sector¹⁴.

4. *Monitoring and evaluation of adaptation actions and processes*

4.1 Monitoring and evaluation methodology¹⁵ related to:

- a) reducing climate impacts, vulnerabilities, risks, and increasing adaptive capacity;
- b) implementation of adaptation actions.

4.2 State of play of the implementation of measures planned under points 3.3 to 3.6, including an overview of the subnational level and the disbursement of funding to increase climate resilience. The reporting on funding shall cover:

- a) spending earmarked for climate adaptation including in disaster risk management;
- b) to the extent possible, the share of spending used to support climate adaptation¹⁶ in each sector¹⁷.

4.3 Evaluating progress towards the following¹⁸:

- a) reducing climate impacts, vulnerabilities and risks;
- b) increasing adaptive capacity;
- c) meeting adaptation priorities;
- d) addressing barriers to adaptation.

4.4 Steps taken to review and update the following:

- a) vulnerability and risk assessments;

¹¹ Including those institutional, governance-related and other barriers that restrict the adaptive capacity as identified in the vulnerability assessment.

¹² Including nature-based solutions and actions leading to mitigation co-benefits and other relevant co-benefits

¹³ The summaries shall cover also efforts to build resilience and avert, minimise and address the adverse consequences of climate change, and include an explanation how gender perspectives have been taken into account.

¹⁴ **Contracting Parties** shall provide an overview of available information on private sector plans, priorities, actions and programmes, public/ private partnerships, and other relevant private adaptation initiatives and/or projects.

¹⁵ **Contracting Parties** shall report on approaches, systems used, transparency and indicators.

¹⁶ The additional investment that makes a project (that would have been realised anyway) climate resilient.

¹⁷ **Contracting Parties** shall report on investment in adaptation actions by the following sectors: Agriculture and food, biodiversity (including ecosystem-based approaches), buildings, coastal areas, civil protection and emergency management, energy, finance and insurance, forestry, health, marine and fisheries, transport, urban, water management, ICT (information and communications technology), land use planning, business, industry, tourism, rural development; other [please specify].

¹⁸ Based on the monitoring and evaluation methodology as reported under point 4.1.

b) national adaptation policies, strategies, plans, and measures.

4.5 Overview of good practice with regard to steps taken to review and update subnational adaptation plans, policies, strategies and measures.

5. Cooperation, good practices, synergies, experience and lessons learned in the field of adaptation

5.1 Good practices and lessons learnt, including at sub-national level¹⁹

5.2 Synergies of adaptation actions with other international frameworks and/or conventions, in particular the Sustainable Development Goals and the Sendai Framework for Disaster Risk Reduction

5.3 Cooperation with **Contracting Parties** <...> Member States **of the European Union**, international cooperation, and with regional and international organisations²⁰:

- a) cooperation to share information and to strengthen science, institutions and adaptation knowledge;
- b) cooperation to enhance adaptation action at the sub-national, national, macro-regional and international level, including the area, scale and types of cooperation.

6. Any other information related to climate change impacts and adaptation

6.1 Key contact details of national coordinator and organisation

6.2 Relevant websites and social media sources used for communication on adaptation action at national and sub-national level, as appropriate

6.3 Key reports and publications at national and sub-national level

6.4 Any other relevant information.

¹⁹ **Contracting Parties** may report on the good practices and lessons learnt in the following areas, when relevant: Climate modelling activities and methodologies; assessment of climate impacts, vulnerability and risks to climate change, including adaptive capacity; institutional arrangements and governance at the national level; policy and regulatory changes; coordination mechanisms; adaptation priorities; adaptation barriers; adaptation goals, objectives, undertakings, efforts, strategies, policies and plans; efforts to integrate climate change adaptation into development and sectoral policies, plans and programs; integration of gender perspectives into climate adaptation; integration of indigenous, traditional and local knowledge into climate adaptation; stakeholder engagement; climate risk communication; monitoring and evaluation; strengthening scientific research and knowledge; disaster risk reduction and management, innovative adaptation solutions and innovative financing mechanisms.

²⁰ Excluding information on support to developing countries referred to in Part 2 of Annex VIII of Regulation (EU) 2018/1999.

ANNEX II

Information on the use of **carbon price mechanism** revenues pursuant to Article 5

Table 1a: Revenues generated from **carbon price mechanism in year X-1**

1		Amount for the year X-1		
2		1 000 Euros	1 000 in domestic currency, if applicable (1)	Comments (e.g. explain gaps, relevant national circumstances, changes since last reporting)
3	A	B	C	D
4	Total amount of revenues generated from carbon price mechanism (sum of rows 5 and 6)	Sum of B5+B6	Sum of C5+C6	
5	Of which amount of revenues generated from auctioning of allowances pursuant to Article 10 of Directive 2003/87/EC			
6	Of which amount of revenues generated from auctioning of allowances pursuant to Article 3d(1) or (2) of Directive 2003/87/EC			

Notes:

(1) An average annual exchange rate for the year X-1 or the real exchange rate applied to the amount disbursed shall be used for the currency conversion.

Table 1b: Use of revenues from carbon price mechanism in year X-1

1	Total amount disbursed in the year X-1		Of which amount disbursed in year X-1 and reported as committed in years before X-1		Total amount committed, but not disbursed, in the year X-1		Equivalent financial value used in the year X-1 ⁽²⁾				
	1 000 Euros	1 000 in domestic currency, if applicable ⁽¹⁾	1 000 Euros	1 000 in domestic currency, if applicable ⁽¹⁾	1 000 Euros	1 000 in domestic currency, if applicable ⁽¹⁾	1 000 Euros	1 000 in domestic currency, if applicable ⁽¹⁾			
2	A		B	C	D	E	F	G	H	I	J
3	A		B	C	D	E	F	G	H	I	J
4	Total amount of revenues from carbon price mechanism or equivalent financial value used for the purposes specified in paragraph 3 of Article 10, and Article 3d(4) of Directive 2003/87/EC										
5	Of which amount of revenues auctioning of allowances used for the purposes specified in Article 10(3) of Directive 2003/87/EC (if data are available for separate reporting)										
6	Of which amount of revenues auctioning of allowances used for the purposes specified in Article 3d(4) of Directive 2003/87/EC (if data are available for separate reporting)										

Notation: x = reporting year

Notes:

(1) An average annual exchange rate for the year X-1 or the real exchange rate applied to the amount disbursed shall be used for the currency conversion.

(2) By reporting 'equivalent financial value', **Contracting Parties** report values which are representative for their spending in accordance with Articles 3d and 10 of Directive 2003/87/EC, and indicate that all values reported in Tables 2 to 6 also represent equivalent financial value.

Table 2: Use of revenues from carbon price mechanism for domestic <...> purposes <...>

1	Purpose for which revenues were used	Short description	Amount for year X-1		Status (2)	Revenues pursuant to [tick relevant column]		Type of use (3)	Financial instrument (4)	Implementing Agency	Comments
2	e.g. programme, activity, action or project title	Including reference to online source of more detailed description, if available	1 000 Euros	1 000 Domestic Currency ⁽¹⁾	Committed (but not disbursed)/disbursed	Article 3d of Directive 2003/87/EC	Article 10 of Directive 2003/87/EC	Select type of use as outlined in Directive 2003/87/EC	To be selected: fiscal, financial support policy, domestic regulatory policy that leverage financial support, other	(e.g. responsible ministry)	e.g. explain gaps, qualitative information on specific uses if quantitative information is not available
3	A	B	C	D	E		G	H	I	J	K
4											
5											
6	Total amount of revenues or equivalent financial value used		Sum of column C	Sum of column D							

Notation: x = reporting year

Notes:

- (1) An average annual exchange rate for the year X-1 or the real exchange rate applied to the amount disbursed shall be used for the currency conversion.
- (2) **Contracting Parties** shall provide the definitions used for 'commitment' and 'disbursement' as part of their report. If part of the reported amount is committed and another part disbursed related to a specific programme/project, two separate rows should be used. If **Contracting Parties** are not able to distinguish between committed and disbursed amounts, the most appropriate category should be selected for the reported amounts. Consistent definitions should be used across the Tables. Generally, 'committed' auction revenues are those which have been legally committed to be used for climate and energy purposes, but in some cases may not have yet been spent at the time of reporting. 'Disbursed' auction revenues are those which have been spent at the time of reporting. However, in some cases, 'Commitment' can refer to revenues that are only preliminarily planned to be used and 'disbursement' are those which have been transferred to a specific State Agency for a specific purpose or to a regional government.
- (3) Categories of uses mentioned in Article 10(3) of Directive 2003/87/EC as follows:
 - funding of research and development and demonstration projects for reducing emissions and for adaptation;

- funding of initiatives within the framework of the European Strategic Energy Technology Plan and the European Technology Platforms;
- development of renewable energies to meet the commitment of the Union;
- development of other technologies contributing to the transition to a safe and sustainable low-carbon economy;
- development of technologies that help meet the commitment of the Union to increase energy efficiency;
- forestry sequestration in the Union;
- environmentally safe capture and geological storage of CO₂;
- encouragement of a shift to low-emission and public forms of transport;
- financing of research and development in energy efficiency and clean technologies;
- measures intended to increase energy efficiency and insulation or to provide financial support in order to address social aspects in lower and middle income house-holds;
- coverage of administrative expenses of the management of the EU ETS;
- promotion of skill formation and reallocation of labour in order to contribute to a just transition to a low carbon economy;
- other reduction of greenhouse gas emissions;
- adaptation to the impacts of climate change;
- other domestic uses.

Categories mentioned in Article 3d(4) of Directive 2003/87/EC, but not specifically mentioned in Article 10(3) as follows:

- funding of common projects to reduce greenhouse gas emissions from the aviation sector;
- measures to avoid deforestation.

Contracting Parties shall avoid double counting of amounts in this Table. If a specific use fits to several types of uses, several types can be selected; however, the amount indicated is not to be multiplied but additional rows for types of uses are to be linked with one entry field for that amount.

(4) Several categories can be selected if several financial instruments are relevant for the reported programme or project.

Table 3

<...>

Table 4

<...>

Table 5

<...>

Table 6

<...>

ANNEX III

Information on financial and technology support provided to developing countries pursuant to Article 6(1)

Table 1: Provision of support committed and provided of public resources through bilateral and regional channels, including technology development and transfer and capacity building where relevant ^{(1) (2)}

Channel	Recipient	Title of activity/ program/ project or other*	Funding source	Financial instrument	Type of support	Sector	Committed amount (a)	Provided amount (a)	Grant equivalent* (a)(b)	Sub-sector* (c)	Technology transfer/ Capacity Building* (d)	Additional Information* (e)
<i>Bilateral/ Regional/ Other (specify)</i>			<i>ODA/ OOF/ Other (specify)</i>	<i>Grant/ Concessional loan/ Non-concessional loan/ Equity/ Guarantee/ Insurance/ Other (specify)</i>	<i>Adaptation/ Mitigation/ Cross-cutting</i>	<i>Energy/ Transport/ Industry/ Agri-cultural/ Forestry/ Water and sanitation/ Cross-cutting/ Other (specify)</i>					<i>T/ C/ Both/ N/A</i>	

Notes:

- (1) The information elements marked with '*' shall be completed as available.
- (2) The information shall be reported per calendar year (X-1).
 - (a) Amount shall be reported in domestic currency.
 - (b) This information is to be provided as reported to the UN or the Organisation for Economic Cooperation and Development (OECD) in accordance with any internationally agreed information requirements.
 - (c) The five-digit purpose codes introduced by the OECD Development Assistance Committee for reporting to the Creditor Reporting System (DAC CRS) may be used when reporting sub-sector information.
 - (d) **Contracting Parties** shall indicate 'T' if the activity contributes to technology development and transfer objectives, 'C' if it contributes to capacity building objectives, 'Both' if cross-cutting and 'N/A' if not applicable.
 - (e) Additional information shall be provided, such as a link to relevant program documentation or a description of the project.

Table 2: Provision of support committed and provided of public financial resources through multilateral channels, including technology development and transfer and capacity building where relevant ^{(1) (2)}

Channel	Multilateral institution	Title of activity/ program/ project or other*	Funding source	Financial instrument	Committed Amount (a) (Core/ general)	Provided amount (a) (Core/ general)	Committed Amount (a) (Climate-specific)	Provided amount (a) (Climate-specific)	Recipient*	Grant equivalent * (a)/(b)
Multilateral Multi-bilateral/ Other (Specify)			ODA/ OOF/ Other (Specify)	Grant/ Concessional loan/ Non-concessional loan/ Equity/ Guarantee/ Insurance/ Other (Specify)					Global/ Regional/ Country	

Imputed multilateral contribution* (d)	Financial instrument	Type of support*	Sector*	Sub-Sector* (e)	Technology transfer/ Capacity building* (f)	Additional Information* (g)
Yes/ No/ N/A	Grant/ Concessional loan/ Non-concessional loan/ Equity/ Guarantee/ Insurance/ Policy intervention/ Other (Specify)	Adaptation/ Mitigation/ Cross-cutting	Energy/ Transport/ Industry/ Agriculture/ Forestry/ Water and sanitation/ Cross-cutting/ Other			

Notes:

(1) The information elements marked with '*' shall be completed as available.

(2) The information shall be reported per calendar year (X-1).

(a) Amount shall be reported in domestic currency.

(b) This information is to be provided as reported to the UN or OECD in accordance with any internationally agreed information requirements.

(c) **Contracting Parties** shall indicate if the amount reported is based on the 'inflow contribution' to the multilateral institution or on the 'outflow share' of the multilateral institution's financial resources.

(d) **Contracting Parties** shall indicate if the 'climate-specific' amount is calculated following the OECD Imputed Multilateral Shares.

(e) The OECD-DAC CRS five-digit purpose codes may be used when reporting sub-sector information.

(f) **Contracting Parties** shall indicate 'T' if the activity contributes to technology development and transfer objectives, 'C' if it contributes to capacity building objectives, 'Both' if cross-cutting and 'N/A' if not applicable.

(g) Additional information shall be provided, such as a link to relevant program documentation and description of the project.

Table 3: Information on financial support mobilised through public interventions ^{(1) (2)}

Channel	Recipient	Title of activity/ program/ project or other*	Type of public intervention	Type of support	Sector	Amount mo- bilised (a)	Sub-sector*	Grant equivalent* (a) (c)	Amount of resources used to mobilise the support*	Additional Information* (d)
<i>Bilateral/ Regional/ Other (specify)</i>	<i>Global/ Region/ Country</i>		<i>Grant/ Conces- sional loan/ Non-conces- sional loan/ Equity/ Guar- antee/ Insur- ance/ Capac- ity building/ Technology development and transfer/ Other (specify)</i>	<i>Adaptation/ Mitigation/ Crosscutting</i>	<i>Energy/ Transport/ Industry/ Agriculture/ Forestry/ Water and sanitation/ Crosscutting/ Other (specify)</i>					

Notes:

- (1) The information elements marked with "*" shall be completed as available.
- (2) The information shall be reported per calendar year (X-1).
 - (a) Amount shall be reported in domestic currency.
 - (b) The OECD-DAC CRS five-digit purpose codes may be used when reporting sub-sectoral information.
 - (c) This information is to be provided as reported to the UN or OECD in accordance with any internationally agreed information requirements.
 - (d) Additional information shall be provided, such as a link to relevant program documentation or a description of the project.

Template 1: Information on financial support mobilised through public interventions per activity (1) (2) to be used in cases where it is impossible for a **Contracting Party** to fill in Table 3

Title of activity/program/project or other

1. Channel

2. Recipient

3. Type of public intervention

4. Type of support

5. Sector

6. Amount mobilised (a)

7. Sub-sector* (b)

8. Grant equivalent* (a)(c)

9. Amount of resources used to mobilise the support*

10. Addition information* (d)

Notes:

- (1) The information elements marked with ‘*’ shall be completed as available.
- (2) The information shall be reported per calendar year (X-1).
 - (a) Amount shall be reported in domestic currency
 - (b) The OECD-DAC CRS five-digit purpose codes may be used when reporting sub-sector information.
 - (c) This information is to be provided as reported to the UN or OECD in accordance with any internationally agreed information requirements.
 - (d) Additional information shall be provided, such as a link to relevant program documentation or a description of the project.

ANNEX IV

Qualitative methodological information pursuant to Article 6(2)

Template 1: Provision of qualitative methodological information as applicable and other information on definitions and methodologies

1. Climate finance

2. New and additional

3. Developing Country

4. Core/general

5. Climate-specific

6. Financial instruments (e.g. grant, concessional loan, non-concessional loan, equity, guarantee, insurance, other (specify))

7. Funding source (ODA, OOF, other)

8. Status (committed and provided)

9. Support mobilised (e.g. (i) Identifying a clear causal link between a public intervention and mobilized private finance, where the activity would not have moved forward, or moved forward at scale, in the absence of the Party's intervention; (ii) Providing information on the point of measurement (e.g. point of commitment, point of disbursement) of the private finance mobilized as a result of the public intervention, to the extent possible in relation to the type of instrument or mechanism used for the mobilization; (iii) Providing information on the boundaries used to identify finance as mobilized by public intervention)

10. Sector, sub-sector

11. Type of support (climate mitigation/ climate adaptation/ cross-cutting)

12. Public finance/private finance (e.g. in particular where entities or funds are mixed)

13. Application of Rio Markers (coefficients)

14. Determining grant-equivalent component of support provided and support mobilised when grant-equivalent information has been reported

15. Methodologies used to determine figures on support mobilized

16. How double counting was avoided between the resources reported as committed or provided, and the resources used in accordance with Article 6 of the Paris Agreement by the acquiring Party for use towards the achievement of its Nationally Determined Contribution

17. A description of the systems and processes used to identify, track, and report on support committed, provided and mobilised through public interventions

18. A description of the national systems and institutional arrangements for the provision of information on planned provision of support, including information on planned activities related to public-funded technology transfer projects and capacity-building projects for developing countries under the UNFCCC

19. Information, as available, a description of national systems and institutional arrangements for the provision of technology transfer and capacity building support, including on the underlying assumptions, definitions and methodologies used to provide information on technology transfer and capacity-building support

20. Information on channels and barriers encountered, lessons learned and measures to taken to overcome them

21. Information on how it has been sought to ensure that support committed, provided and mobilised through public interventions is in line with the long-term goals of the Paris Agreement

22. Information on how support committed, provided and mobilised is targeted at helping developing countries in their efforts to meet the long-term goals of the Paris Agreement, including by assisting them in efforts to make financial flows consistent with a pathway towards low-greenhouse gas emissions and climate-resilient development

23. Information on how the information provided reflects a progression from previous levels in the provision of support and mobilisation of finance under the Paris Agreement

24. How it seeks to ensure that support provided and mobilized through public interventions effectively addresses the needs and priorities of developing country Parties for the implementation of the Paris Agreement, as identified in country-driven strategies and instruments, such as biennial transparency reports, NDCs and national adaptation plans

25. Information on actions and plans to mobilise additional climate finance as part of the global effort to mobilise climate finance from a wide variety of sources, including on the relationship between the public intervention to be used and the private finance mobilised

26. Information on reporting on multilateral finance, including: (i) Whether the multilateral finance reported is based on the Party's inflow contribution to a multilateral institution and/or on the Party's share in the outflow of the multilateral institution; (ii) Whether and how multilateral finance has been reported as climate-specific and how the climate-specific share was calculated, including by, for example, using existing international standards; (iii) Whether multilateral finance has been reported as core/general, with the understanding that the actual climate finance amount it would transfer into depends on the programming choices of the multilateral institutions; (iv) Whether and how multilateral finance has been attributed to the reporting Party.

ANNEX V

Available information on the planned provision of support pursuant to Article 6(3)

Table: Available information on the planned provision of support

Year/period	Recipient (a)	Title of activity/program/	Projected amount to be provided (b)	Type of support	Technology transfer/ Capacity Building (c)	Additional Information (d)
	Global/Region/ Country			Mitigation/ Adaptation/ Cross-cutting	T/ C/ Both/ N/A	

Notes:

- (a) **Contracting Parties** shall provide information on the recipient country/region at the preferred level of disaggregation.
- (b) Where possible, **Contracting Parties** shall provide the amount of support to be provided in domestic currency (recommended to provide face-value on a commitment basis).
- (c) **Contracting Parties** shall indicate 'T' if the activity contributes to technology development and transfer objectives, 'C' if it contributes to capacity building objectives, 'Both' if cross-cutting and 'N/A' if not applicable.
- (d) Additional information shall be provided, such as a link to relevant program documentation, a description of the project, or available information in accordance with Article 9(5) of the Paris Agreement.

*Template 1: Available information on the planned provision of support per activity/program/project to be used in cases where it is impossible for a **Contracting Party** to fill in Table 1*

Title of activity/program/project

1. Year

2. Recipient (a)

3. Projected amount to be provided (b)

4. Type of support

5. Technology transfer/Capacity Building (c)

6. Additional Information (d)

Notes:

- (a) **Contracting Parties** shall provide information on the recipient country/region at the preferred level of disaggregation.
- (b) Where possible, **Contracting Parties** shall provide the amount of support to be provided in domestic currency (recommended to provide face-value on a commitment basis).
- (c) **Contracting Parties** shall indicate 'T' if the activity contributes to technology development and transfer objectives, 'C' if it contributes to capacity building objectives, 'Both' if cross-cutting and 'N/A' if not applicable.
- (d) Additional information shall be provided, such as a link to relevant program documentation, a description of the project, or available information in accordance with Article 9(5) of the Paris Agreement.

ANNEX VI

Reporting on approximated greenhouse gas inventories pursuant to Article 7

Member state:	
Reported year 't-1'	
Reporting year 't'	

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ (1)	CH ₄	N ₂ O	HFCs	PFCs	SF ₆	Unspecified mix of HFCs and PFCs	NF ₃	Total	ETS	Effort Sharing (3)
	CO ₂ equivalent (kt)									CO ₂ equivalent (kt)	
Total (net emissions) (1)											
1. Energy											
A. Fuel combustion (sectoral approach)											
1. Energy industries											
2. Manufacturing industries and construction											
3. Transport											
4. Other sectors											
5. Other											
B. Fugitive emissions from fuels											
1. Solid fuels											
2. Oil and natural gas											
C. CO ₂ transport and storage											
2. Industrial processes and product use											
A. Mineral industry											
B. Chemical industry											
C. Metal industry											
D. Non-energy products from fuels and solvent use											
E. Electronic Industry											
F. Product uses as ODS substitutes											
G. Other product manufacture and use											
H. Other											

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ (1)	CH ₄	N ₂ O	HFCs	PFCs	SF ₆	Unspecified mix of HFCs and PFCs	NF ₃	Total	ETS	Effort Sharing (3)
	CO ₂ equivalent (kt)									CO ₂ equivalent (kt)	
3. Agriculture											
A. Enteric fermentation											
B. Manure management											
C. Rice cultivation											
D. Agricultural soils											
E. Prescribed burning of savannahs											
F. Field burning of agricultural residues											
G. Liming											
H. Urea application											
I. Other carbon-containing fertilizer											
J. Other											
4. Land use, land-use change and forestry (1)											
A. Forest land											
B. Cropland											
C. Grassland											
D. Wetlands											
E. Settlements											
F. Other lands											
G. Harvested wood products											
5. Waste											
A. Solid waste disposal											
B. Biological treatment of solid waste											
C. Incineration and open burning of waste											
D. Waste water treatment and discharge											
E. Other											
6. Other (as specified in summary 1.A)											
Memo items:											
International bunkers											
Aviation											
Navigation											

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ (1)	CH ₄	N ₂ O	HFCs	PFCs	SF ₆	Unspecified mix of HFCs and PFCs	NF ₃	Total	ETS	Effort Sharing (3)
	CO ₂ equivalent (kt)										
CO ₂ emission from biomass											
CO ₂ captured											
Indirect CO ₂ (2)											
Total CO₂ equivalent emissions without land use, land-use change and forestry											
Total CO₂ equivalent emissions with land use, land-use change and forestry											
Total CO₂ equivalent emissions, including indirect CO₂, without land use, land-use change and forestry											
Total CO₂ equivalent emissions, including indirect CO₂, with land use, land-use change and forestry											

Notes:

- (1) For carbon dioxide (CO₂) from land use, land-use change and forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).
- (2) For **Contracting Parties** that report indirect CO₂ the national totals shall be provided with and without indirect CO₂.
- (3) Emissions within the scope of Regulation (EU) 2018/842.

Brief description of the key drivers underpinning the increase or decrease in GHG emissions in x-1 (proxy) compared to x-2 (inventory). If this information is publicly available please include the hyperlink to the relevant website.

Information on the uncertainties associated with the estimations for the LULUCF sector may also be provided.

ANNEX VII

Overview of reporting on greenhouse gas inventories pursuant to Article 8(2) (1), (2)

[Article of] This Regulation	Information to be provided in the National Inventory Report (tick)	Information to be provided in a separate annex to NIR (tick)	Reference to chapter in the NIR or in separate annex (specify)
Article 9 Reporting on recalculations	Obligatory		Chapter of the NIR on 'Recalculations and improvements'
Article 10 Reporting on implementation of recommendations in Table 1 of Annex VIII	Obligatory	Obligatory	Chapter of the NIR on recalculations and improvements
Article 10 Reporting on implementation of recommendations in Table 2 of Annex VIII	Not applicable	Obligatory	
Article 12(1) Reporting on uncertainty	Not applicable	Obligatory	
Article 12(2) Reporting on completeness	Obligatory	Not applicable	In the respective table of the CRT and in the respective chapters of the NIR
Article 14(1) Reporting on consistency of reported emissions with data from the emissions trading scheme (Annex XII data)	Not applicable	Obligatory	
Article 14(2) Reporting on consistency of reported emissions with data from the emissions trading scheme (textual information)	Possible	Possible	If in the NIR: In the relevant sections of the NIR
Article 15 Reporting on consistency of the reported data on air pollutants	Possible	Possible	If in the NIR: Chapter of the NIR on 'quality assurance, quality control and verification plan'
Article 16 Reporting on consistency of the data reported on fluorinated greenhouse gases	Possible	Possible	If in the NIR: In the relevant sections of the NIR
Article 17 Reporting on consistency with energy statistics	Possible	Possible	If in the NIR: In the relevant sections of the NIR
Article 18 Reporting on changes in descriptions of national inventory systems or registries	Obligatory	Not applicable	In the relevant chapters of the NIR

Notes:

- (1) Information to be submitted by 15 January shall be submitted as draft chapters of the NIR or respective separate annexes.
- (2) The entry 'possible' means that **Contracting Parties** shall choose whether to report the information either in the NIR or in a separate annex to the NIR.

ANNEX VIII

Reporting on implementation of recommendations pursuant to Article 10

Table 1: Format for reporting information on the status of implementation of each recommendation listed in the most recently published individual UNFCCC review report, including reasons for not having implemented such a recommendation

Year of latest UNFCCC inventory review					
CRT category/ issue	Review recom- mendation	Review report/ paragraph	Member State response/status of implementation	Reason for non-implemen- tation	Chapter/section in the NIR

Table 2: Format for reporting information on the status of implementation of each recommendation, technical correction or revised estimate listed in the most recent review report pursuant to Article 35(2) of Commission Implementing Regulation No 749/2014 or to Article 32 of this Regulation

Year of latest Energy Community -internal inventory review				
CRT category/issue	Review recommen- dation, technical correction or revised estimate	Review report/para- graph	Contracting Party response/status of implementation	Chapter/section in the NIR

ANNEX IX

Reporting on inventory methods, emission factors and on related methodological descriptions for Energy Community key categories pursuant to Article 11

Part 1			Part 2				Part 3				Part 4			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Information to be provided by the Secretariat			Information to be reported by Contracting Parties											
Identification of Energy Community key categories			Information related to the Energy Community key categories											
by 31 October of the year previous to the submission and by 28 February of the current inventory submission			For Energy Community key categories identified in column B, by 15 January and 15 March											
For Energy Community key categories identified in column A, by 15 January and 15 March			For Energy Community key categories identified in column A, by 15 January and 15 March											
List of Energy Community key categories (a)	tick to identify key categories where the information on methods and emission factors are not available or reported by Contracting Party in the CRT	tick to identify as a new Energy Community key category compared to the previous Energy Community greenhouse gas inventory	Methods used in the latest Contracting Party's inventory (b)	Emission factors used in the latest Contracting Party's inventory (b)	Contracting Party's summary methodological descriptions in the latest inventory (c)	reference (section number) to the description in the final NIR (c) (g)	tick to identify as a new Energy Community key category compared to the latest Energy Community greenhouse gas inventory (d)	Methods used in the latest Contracting Party's inventory (b)	Emission factors used in the latest Contracting Party's inventory (b)	tick to identify if the methods used in the latest inventory (column D) deviate from the methods used in the previous inventory (column D)	tick to identify if the emission factors used in the latest inventory (column E) deviate from the emission factors used in the previous inventory (column E)	Summary methodological descriptions in the latest inventory	Summary methodological descriptions in the latest inventory	reference (section number) to the description in the final NIT (g)

Notes:

- (a) The categories used in the Union key category analysis shall be specified by the Commission by category code, category title, assessed greenhouse gas and, where applicable, fuel type. For example: 1.A.1.a, Public Electricity and Heat Production, Gaseous Fuels, CO₂.
- (b) Notation keys (abbreviations) for 'method applied' and 'emission factors' used in the common reporting tables' summary sheet on methods and emission factors used.
- (c) Information of the previous year's description to be included by 31 October 2023, for the first time.
- (d) Column H is to be provided by the Commission.
- (e) Information in column F is to be provided by the Commission by 31 October 2023, for the first time.

(f) Changes related to information reported in columns I, J, K and L shall only be reported, if applicable, for key categories identified in column B.

(g) 'Final NIR' means the latest available complete NIR submitted to the EU.

ANNEX X

Reporting on uncertainty and completeness pursuant to Article 12

A	B	C	D	F	G	H	I	J	K	L	M
IPCC category	Gas	Base year emission or removals	Year x emissions or removals	Emission factor/ estimation parameter uncertainty	Combined uncertainty	Contribution to Variance by Category in Year x	Type A sensitivity	Type B sensitivity	Uncertainty in trend in national emissions introduced by emission factor/ estimation parameter uncertainty	Uncertainty in trend in national emissions introduced by activity data uncertainty	Uncertainty introduced into the trend in total national emissions
		Input data	Input data	Input data Note A	$\sqrt{E^2 + F^2}$	$\frac{(G + D)^2}{(\sum D)^2}$	Note B	$\left \frac{D}{\sum C} \right $	I * F Note C	J * E * 2 Note D	K ² + L ²
		Gg CO ₂ equivalent	Gg CO ₂ equivalent	%	%	%		%	%	%	%
E.g., 1.A.1. Energy industries fuel 1	CO ₂										
E.g., 1.A.1. Energy industries fuel 2	CO ₂										
Etc.	...										
Total		$\sum C$	$\sum D$			Percentage uncertainty in total inventory:	$\sum H$				$\sum M$
							$\sqrt{\sum H}$				$\sqrt{\sum M}$

Source: 2006 IPCC guidelines, Volume 1, Table 3.2 Approach 1 uncertainty calculation

ANNEX XI

Reporting on indicators pursuant to Article 13

No	Nomenclature in Eurostat energy efficiency indicators	Indicator	Numerator / denominator (1) (4)	Guidance / definitions (2) (3)	Year X-2
1	TRANSFORMATION BO	Specific CO ₂ emissions of public and auto-producer power plants, t/TJ	CO ₂ emissions from public and auto-producer thermal power stations, kt	CO ₂ emissions from all fossil fuel combustion for gross electricity and heat production by public and auto-producer thermal power and combined heat and power plants. Emissions from heat only plants are not included.	
			All products – output by public and auto-producer thermal power stations, PJ	Gross electricity produced and any heat sold to third parties (combined heat and power plants - CHP) by public and auto-producer thermal power and combined heat and power plants. Output from heat only plants is not included. Public thermal plants generate electricity (and heat) for sale to third parties, as their primary activity. They may be privately or publicly owned. Auto-producer thermal power stations generate electricity (and heat) wholly or partly for their use as an activity, which supports their primary activity. The gross electricity generation is measured at the outlet of the main transformers, i.e. the consumption of electricity in the plant auxiliaries and in transformers is included. (source: energy balance)	
2	TRANSFORMATION EO	Specific CO ₂ emissions of auto-producer plants, t/TJ	CO ₂ emissions from auto-producers, kt	CO ₂ emissions from all fossil fuel combustion for gross electricity and heat production by auto-producer thermal power and combined heat and power plants.	
				Gross electricity produced and any heat sold to third parties (combined heat and power - CHP) by auto-producer thermal power and combined heat and power plants. Auto-producer thermal power stations generate electricity (and heat) wholly or partly for their use as an activity, which supports their primary activity. The gross electricity generation is measured at the outlet of the main transformers, i.e. the consumption of electricity in the plant auxiliaries and in transformers is included (source: energy balance).	
3	INDUSTRY A1.1	Total CO ₂ intensity - iron and steel industry, t/ million euro	Energy-related CO ₂ emissions chemical industries, kt	CO ₂ emissions from combustion of fossil fuels in manufacture of chemicals and chemical products including combustion for the generation of electricity and heat (IPCC source category 1A2c).	
			gross value added - chemical industry, billion Euro	Gross value added at constant 2016 prices in manufacture of chemicals and chemical products (NACE 24) (source: National Accounts)	

No	Nomenclature in Eurostat energy efficiency indicators	Indicator	Numerator / denominator (1) (4)	Guidance / definitions (2) (3)	Year X-2
4	INDUSTRY A1.2	Energy-related CO ₂ intensity - chemical industry, t/ million euro	Energy-related CO ₂ emissions chemical industries, kt	CO ₂ emissions from combustion of fossil fuels in manufacture of chemicals and chemical products including combustion for the generation of electricity and heat (IPCC source category 1A2c).	
			gross value added - chemical industry, billion Euro	Gross value added at constant 2016 prices in manufacture of chemicals and chemical products (NACE 24) (source: National Accounts)	
5	INDUSTRY A1.3	Energy-related CO ₂ intensity - glass, pottery and building materials industry, t/ million euro	Energy-related CO ₂ emissions glass, pottery and building materials, kt	CO ₂ emissions from combustion of fossil fuels in manufacture of non-metallic mineral products (NACE 26) including combustion for the generation of electricity and heat.	
			gross value added - glass, pottery and buildings material industry, billion Euro	Gross value added at constant 2016 prices in manufacture of non-metallic mineral products (NACE 26) (source: National Accounts)	
6	INDUSTRY A1.4	Energy-related CO ₂ intensity - food, drink and tobacco industry, t/ million euro	Energy-related CO ₂ emissions from food, drink and tobacco industry, kt	CO ₂ emissions from combustion of fossil fuels in manufacture of food products and beverages and tobacco products including combustion for the generation of electricity and heat (IPCC source category 1A2e).	
			gross value-added - food, drink and tobacco industry, billion Euro	Gross value added at constant 2016 prices in manufacture of food products and beverages (NACE 15) and tobacco products (NACE 16) (source: National Accounts)	
7	INDUSTRY A1.5	Energy-related CO ₂ intensity paper and printing industry, t/million euro	Energy-related CO ₂ emissions paper and printing, kt	CO ₂ emissions from combustion of fossil fuels in manufacture of pulp, paper and paper products and publishing, printing and reproduction of recorded media including emissions from combustion for the generation of electricity and heat (IPCC source category 1A2d)	
			Gross value-added - paper and printing industry, billion Euro	Gross value added at constant 2016 prices in manufacture of pulp, paper and paper products (NACE 21) and publishing, printing and reproduction of recorded media (NACE 22) (source: National Accounts)	
8	HOUSE-HOLDS A0	Specific CO ₂ emissions of households for space heating, kg/m ²	CO ₂ emissions of households for space heating, kt	CO ₂ emissions from fossil fuel combustion for space heating in households.	
			surface area of permanently occupied dwellings, million m ²	Total surface area of permanently occupied dwellings	
9	SERVICES B0	Specific CO ₂ emissions of commercial and institutional sector for space heating, kg/m ²	CO ₂ emissions from space heating in commercial and institutional, kt	CO ₂ emissions from fossil fuel combustion for space heating in commercial and institutional buildings in the public and private sectors.	
			Surface area of services buildings, million m ²	Total surface area of services buildings (NACE 41, 50, 51, 52, 55, 63, 64, 65, 66, 67, 70, 71, 72, 73, 74, 75, 80, 85, 90, 91, 92, 93, 99)	

No	Nomenclature in Eurostat energy efficiency indicators	Indicator	Numerator / denominator (1) (4)	Guidance / definitions (2) (3)	Year X-2
10	TRANSPORT B0	Specific diesel related CO ₂ emissions of passenger cars, g/km	CO ₂ emissions of diesel-driven passenger cars, kt	CO ₂ emissions from the combustion of diesel for all transport activity with passenger cars (IPCC source category 1A3bi only diesel)	
			Number of kilometres of diesel-driven passenger cars, billion km	Number of vehicle kilometres of total diesel-driven passenger cars licensed to use roads open to public traffic. (source: transport statistics)	
11	TRANSPORT B0	Specific petrol related CO ₂ emissions of passenger cars, g/km	CO ₂ emissions of petrol-driven passenger cars, kt	CO ₂ emissions from the combustion of petrol for all transport activity with passenger cars (IPCC source category 1A3bi only petrol)	
			Number of kilometres of petrol-driven passenger cars, billion km	Number of vehicle kilometres of total petrol-driven passenger cars licensed to use roads open to public traffic. (source: transport statistics)	

Notation: x = reporting year

Notes:

- (1) **Contracting Parties** shall report numerator and denominator, if not included in the CRT.
- (2) **Contracting Parties** shall follow this guidance. If they cannot follow exactly this guidance or if numerator and denominator are not entirely consistent, **Contracting Parties** shall clearly indicate this.
- (3) The references to IPCC source categories refer to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories.
- (4) One billion means one thousand millions.

ANNEX XII

Reporting on consistency of reported emissions with data from the EU Emissions Trading System pursuant to Article 14

Allocation of verified emissions reported by installations and operators under Directive 2003/87/EC to source categories of the national greenhouse gas inventory Contracting Party
Reporting year:
Basis for data: verified ETS emissions and greenhouse gas emissions as reported in inventory submission for the year X-2

	Total emissions (CO ₂ -eq)			
	Greenhouse gas inventory emissions [kt CO ₂ eq] (3)	Verified emissions under Directive 2003/87/EC [kt CO ₂ eq] (3)	Ratio in % (Verified emissions/inventory emissions) (3)	
Greenhouse gas emissions (for GHG inventory: total GHG emissions, including indirect CO ₂ emissions if reported, without LULUCF, and excluding emissions from domestic aviation; for Directive 2003/87/EC: GHG emissions from stationary installations under Article 2(1) of Directive 2003/87/EC)				
CO ₂ emissions (for GHG inventory: total CO ₂ emissions, including indirect CO ₂ emissions if reported, without LULUCF, and excluding CO ₂ emissions from domestic aviation; for Directive 2003/87/EC: CO ₂ emissions from stationary installations under Article 2(1) of Directive 2003/87/EC)				

Category (1)	CO ₂ emissions			
	Greenhouse gas inventory emissions [kt] (3)	Verified emissions under Directive 2003/87/EC [kt] (3)	Ratio in % (Verified emissions/inventory emissions) (3)	
1.A Fuel combustion activities, total				
1.A Fuel combustion activities, stationary combustion				
1.A.1 Energy industries				
1.A.1.a Public electricity and heat production				
1.A.1.b Petroleum refining				
1.A.1.c Manufacture of solid fuels and other energy industries				

Iron and steel (for GHG inventory combined CRT categories 1.A.2.a + 2.C.1 + 1.A.1.c and other relevant CRT categories that include emissions from iron and steel (e.g. 1A1a, 1B1) (4))				
1.A.2. Manufacturing industries and construction				
1.A.2.a Iron and steel				
1.A.2.b Non-ferrous metals				
1.A.2.c Chemicals				
1.A.2.d Pulp, paper and print				
1.A.2.e Food processing, beverages and tobacco				
1.A.2.f Non-metallic minerals				
1.A.2.g Other				
1.A.3. Transport				
1.A.3.e Other transportation (pipeline transport)				
1.A.4 Other sectors				
1.A.4.a Commercial/Institutional				
1.A.4.c Agriculture/Forestry/Fisheries				
1.B Fugitive emissions from Fuels				
1.C CO₂ Transport and storage				
1.C.1 Transport of CO ₂				
1.C.2 Injection and storage				
1.C.3 Other				
2.A Mineral products				
2.A.1 Cement production				
2.A.2 Lime production				
2.A.3 Glass production				
2.A.4 Other process uses of carbonates				
2.B Chemical industry				
2.B.1 Ammonia production				
2.B.3 Adipic acid production (CO ₂)				
2.B.4 Caprolactam, glyoxal and glyoxylic acid production				
2.B.5 Carbide production				
2.B.6 Titanium dioxide production				
2.B.7 Soda ash production				
2.B.8 Petrochemical and carbon black production				
2.C Metal production				
2.C.1 Iron and steel production				
2.C.2 Ferroalloys production				
2.C.3 Aluminium production				

2.C.4 Magnesium production				
2.C.5 Lead production				
2.C.6 Zinc production				
2.C.7 Other metal production				

Category (1)	N2O emissions			
	Greenhouse gas inventory emissions [kt CO ₂ eq] (3)	Verified emissions under Directive 2003/87/EC [kt CO ₂ eq] (3)	Ratio in % (Verified emissions/ inventory emissions) (3)	Comment (2)
2.B.2 Nitric acid production				
2.B.3 Adipic acid production				
2.B.4 Caprolactam, glyoxal and glyoxylic acid production				

Category (1)	PFC emissions			
	Greenhouse gas inventory emissions [kt CO ₂ eq] (3)	Verified emissions under Directive 2003/87/EC [kt CO ₂ eq] (3)	Ratio in % (Verified emissions/ inventory emissions) (3)	Comment (2)
2.C.3 Aluminium production				

Notation: x = reporting year

Notes:

- (1) The allocation of verified emissions to disaggregated inventory categories at four digit level must be reported where such allocation of verified emissions is possible and emissions occur. The following notation keys should be used:
 NO = not occurring; IE = included elsewhere; C = confidential;
 Negligible = small amount of verified emissions may occur in respective CRT category, but amount is < 5 % of the category.
- (2) The column comment should be used to give a brief summary of the checks performed and if a **Contracting Party** wants to provide additional explanations with regard to the allocation reported.
- (3) Data to be reported up to one decimal point for kt and % values.
- (4) To be filled on the basis of combined CRT categories pertaining to 'Iron and Steel', to be determined individually by each **Contracting Party**; the stated formula is for illustration purposes only.

ANNEX XIII

<...>

ANNEX XIV

Reporting on consistency with energy statistics pursuant to Article 17(2)

FUEL TYPES			Apparent consumption reported in GHG inventory (TJ) (3)	Apparent consumption using data reported pursuant to Regulation (EC) No 1099/2008 (TJ) (3)	Absolute difference (1) (TJ) (3)	Relative difference (2) % (3)	Explanations for differences
Liquid fossil	Primary fuels	Crude oil					
		Orimulsion					
		Natural gas liquids					
	Secondary fuels	Gasoline					
		Jet kerosene					
		Other kerosene					
		Shale oil					
		Gas/diesel oil					
		Residual fuel oil					
		Liquefied petroleum gases (LPG)					
		Ethane					
		Naphtha					
		Bitumen					
		Lubricants					
		Petroleum coke					
		Refinery feedstocks					
		Other oil					
Other liquid fossil							
Liquid fossil totals							

FUEL TYPES		Apparent consumption reported in GHG inventory (TJ) (3)	Apparent consumption using data reported pursuant to Regulation (EC) No 1099/2008 (TJ) (3)	Absolute difference (1) (TJ) (3)	Relative difference (2) % (3)	Explanations for differences
Primary fuels	Anthracite					
	Coking coal					
	Other bituminous coal					
	Sub-bituminous coal					
	Lignite					
	Oil shale and tar sand					
Secondary fuels	BKB and patent fuel					
	Coke oven/gas coke					
	Coal tar					
Other solid fossil						
Solid fossil totals						
Gaseous fossil	Natural gas (dry)					
Other gaseous fossil						
Gaseous fossil totals						
Waste (non-biomass fraction)						
Other fossil fuels						
Peat						
Total						

Notes:

- (1) Apparent consumption reported in GHG inventory minus apparent consumption using data reported pursuant to Regulation (EC) No 1099/2008
- (2) Absolute difference divided by apparent consumption reported in GHG inventory
- (3) Data to be reported up to one decimal point for TJ and % values

ANNEX XV



ANNEX XVI



ANNEX XVII



ANNEX XVIII



ANNEX XX



ANNEX XXI

Timescales for cooperation and coordination in preparing the **Energy Community** greenhouse gas inventory report pursuant to Article 25(1)

Element	Who	When	What
1. Submission of annual inventories (complete CRT and elements of the national inventory report) by Member States	Contracting Parties	Annually by 15 January	Elements listed in Article 26(3) of Regulation (EU) 2018/1999
2. 'Initial checks' of Contracting Party submissions	Secretariat (Eurostat), DG JRC, assisted by European Environment Agency (EEA)	For the Contracting Party submission from 15 January at the latest until 28 February	Checks to verify the transparency, accuracy, consistency, completeness and comparability of Contracting Parties' inventories (by EEA). Comparison of energy data provided by Contracting Parties in the CRT with Eurostat energy data (sectoral and reference approach) by Eurostat and EEA. Check of Contracting Parties' agriculture inventories by JRC (in consultation with Contracting Parties). Check of Contracting Parties' land use, land-use change and forestry (LULUCF) inventories by EEA (in consultation with JRC and Contracting Parties The findings of the initial checks will be documented.
3. Compilation of draft Energy Community inventory and inventory report (elements of the Energy Community inventory report)	Secretariat (JRC), assisted by EEA	Until 28 February	Draft Energy Community inventory and inventory report (compilation of Contracting Party information), based on Contracting Party inventories and additional information where needed (as submitted on 15 January).
4. Circulation of 'initial check' findings including notification of potential gap-filling	Secretariat assisted by EEA	28 February	Circulation of 'initial check' findings including notification of potential gap-filling and making available the findings.
5. Circulation of draft Energy Community inventory and inventory report	Secretariat assisted by EEA	28 February	Circulation of the draft Energy Community inventory on 28 February to Contracting Parties . Contracting Parties check data.
6. Submission of updated or additional inventory data and complete national inventory reports by Contracting Parties	Contracting Parties	By 15 March	Updated or additional inventory data submitted by Contracting Parties (to remove inconsistencies or to fill gaps) and complete national inventory reports.
7. Contracting Party commenting on the draft Energy Community inventory	Contracting Parties	By 15 March	If necessary, provide corrected data and comments to the draft Energy Community inventory.
8. Contracting Party responses to the 'initial checks' Contracting Parties	Contracting Parties	By 15 March	Contracting Parties respond to 'initial checks' if applicable.

Element	Who	When	What
9. Circulation of follow-up initial check findings	Secretariat assisted by EEA	15 March – 31 March	Evaluation of Contracting Parties' responses to the initial-check findings and follow-up questions to Contracting Parties .
10. Estimates for data missing from a national inventory	Secretariat assisted by EEA	31 March	The Secretariat prepares estimates for missing data by 31 March of the reporting year and communicates these to the Contracting Parties .
11. Comments from Contracting Parties regarding the Commission estimates for missing data	Contracting Parties	7 April	Contracting Parties provide comments on the Secretariat estimates for missing data, for consideration by the Secretariat.
12. Contracting Parties responses to follow-up 'initial checks'	Contracting Parties	7 April	Contracting Parties provide responses to follow up of 'initial checks'.
13. Contracting Parties' submissions to the UNFCCC	Contracting Parties	15 April	Submissions to the UNFCCC (with a copy to EEA).
14. Final annual Energy Community inventory (incl. Energy Community inventory report)	Secretariat assisted by EEA	15 April	Submission to UNFCCC of the final annual Energy Community inventory.
15. Submission of any other resubmission after the initial check phase	Contracting Parties	When additional resubmissions occur	Contracting Parties provide to the Secretariat any other resubmission (CRT or national inventory report) which they provide to the UNFCCC secretariat after the initial check phase.

ANNEX XXII



ANNEX XXIII

Format for reporting on national systems for policies and measures and projections pursuant to Article 36

The first report submitted pursuant to Article 36 shall provide a full description and contain all of the information listed in the Table below. For subsequent reporting years, only modifications of the national system for policies and measures and projections need to be reported.

Reporting obligation	Fields for textual information	Examples of details that could be reported under this specific reporting obligation
Name and contact information for the entities with overall responsibility for the National Systems for policies and measures and projections		<ul style="list-style-type: none"> • List the responsible entity or entities, and their specific roles and responsibilities. Identify the lead entity. • If such a description has already been provided, report changes to the name and contact information.
Institutional arrangements in place for preparation of reports on policies and measures and of projections as well as for reporting on them, including an organogram		<ul style="list-style-type: none"> • Define the overall structure/set-up of your national system. List all organisations involved in the preparation of the report on policies and measures and projections and in the archiving of information, their responsibilities, and their interactions. • Provide a description of the organogram to show the organisational structure of the National System for policies and measures and projections, including the functional and hierarchical interrelationships between organisations. • If such a description of the national system has already been provided, report and explain changes to institutional arrangements.
Legal arrangements in place for preparation of reports on policies and measures and of projections		<ul style="list-style-type: none"> • Are there any legal arrangements in place to ensure reporting is completed, and/or data provided? Report the legislation and its scope. • If such a description has already been provided, report the changes to legal arrangements in place for the preparation of the report on policies and measures and projections.
Procedural and administrative arrangements and timescales in place for the preparation of reports on policies and measures and of projections, to ensure the timeliness, transparency, accuracy, consistency, comparability and completeness of the information reported.		<ul style="list-style-type: none"> • Report the cycle for preparation of report on policies and measures and of projections. • Summarise the methodologies and mechanisms how timeliness, transparency, accuracy, consistency, comparability and completeness of the information reported are ensured. • Report on assurance of consistency with preparation of reports on policies and measures, where relevant, and of projections under Directive (EU)2016/2284. • Optionally, provide diagrams that show the processes involved in the national system. These diagrams could include the information flows through the system, and at which points QC and QA measures are applied. • If such a description has already been provided, report the changes to procedural and administrative arrangements.

Description of the information collection process		<ul style="list-style-type: none"> • Provide a summary of the process for collecting information for developing policies and measures, evaluating policies and measures and for developing projections. Explain if and how consistent processes are used for collecting and using information for policies and measures and projections. • If such a description has already been provided, report the changes to the data collection process.
Description of the alignment with the national inventory system		<ul style="list-style-type: none"> • Provide information on the alignment with the national system for the GHG inventory, such as processes to ensure consistency of the data used. • Option to provide details of links to other climate reporting systems if relevant. • If such a description has already been provided, report changes to the links to the national system for greenhouse gas inventories.
Description of the links to arrangements on integrated national energy and climate-reports pursuant to Art. 17 of Regulation (EU) 2018/1999		<ul style="list-style-type: none"> • Provide a summary of the linkages between the processes used to collect data related to policies and measures and projections, and relevant processes to report on progress other dimensions of the Energy Union, e.g. processes to foster consistent use of energy-related data for the development of policies and measures and projections and • for integrated progress reporting. • If such a description has already been provided, report changes to the links to energy-related reporting systems.
Description of the quality assurance and quality control activities for reporting of policies and measures and projections		<ul style="list-style-type: none"> • Provide a summary of the Quality Control activities applied to help ensure accuracy and completeness in the policies and measures and projections reports. Report the Quality Assurance activities in place. • If such a description has already been provided, report the changes to the quality control and quality assurance activities.
Description of the process for selecting assumptions, methodologies and models for making projections of anthropogenic greenhouse gas emissions		<ul style="list-style-type: none"> • Describe the process behind the selection of methodologies and models used. Contracting Parties may also report the reasons for their choices, or cross reference to other reports providing this information. • If such a description has already been provided, report the changes to these processes.
Description of procedures for the official consideration and approval of the Contracting Parties national system for policies and measures and projections		<ul style="list-style-type: none"> • Describe the process for officially approving the national system or changes to the national system. • If such a description has already been provided, report the changes to this process.
Information on relevant institutional administrative and procedural arrangements for domestic implementation of the EU's nationally determined contribution, or changes to such arrangements		<ul style="list-style-type: none"> • Refer to the arrangements for implementing policies and measures as means of domestic implementation and to the arrangements for national projections of anthropogenic greenhouse gas emissions by sources and removals by sinks as means to track domestic progress. • If such a description has already been provided, report the changes to such arrangements.
Description of the stakeholder engagement undertaken in relation to the preparation of policies and measures and projections		<ul style="list-style-type: none"> • Report a description of the stakeholder engagement undertaken in relation to the preparation of policies and measures and projections. Indicate which stakeholders were consulted, and any changes or improvements made.

ANNEX XXIV

Reporting on national policies and measures pursuant to Article 37

Table 1: Sectors, gases and type of policy instrument

General comments		
Reference to assessments and underpinning technical reports		
Indicators used to monitor and evaluate progress over time (j)	Value	
	Year	
	Description	
Entities responsible for implementing the policy (i)	Name	
	Type	
Projections scenario in which the PaM is included		
Implementation period	Finish	
	Start	
Status of implementation (h)		
Union policies which resulted in the implementation of the PaM	Other	
	Energy Community policy (g)	
Type of policy Instrument (f)		
Assessment of the contribution of the policy or Measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999		
Short description		
Quantified objective (e)		
Objective (d)		
GHG(s) affected (c)		
Sector(s) affected (b)		
Geographical coverage (a)		
In case of a grouped policy or measure, which single policies or measures does it cover		
Single or grouped policy or measure		
Name of policy or measure		
PaM number		

Notes: Abbreviations: GHG = greenhouse gas; LULUCF = land use, land-use change and forestry.

(a) **Contracting Parties** shall select from the following categories: covering two or more countries, national, regional, local.

(b) **Contracting Parties** shall select from the following sectors (more than one sector can be selected for cross-sectoral policies and measures): energy supply (comprising extraction, transmission, distribution and storage of fuels as well as the transformation of energy for heating and cooling and electricity production); energy consumption (comprising consumption of fuels and electricity by end users such as households, public administration; services, industry and agriculture); transport; industrial processes (comprising industrial activities that chemically or physically transform materials leading to greenhouse gas emissions, use of greenhouse gases in products and non-energy uses of fossil fuel carbon); agriculture; LULUCF; waste management/waste; other sectors.

(c) **Contracting Parties** shall select from the following GHGs (more than one GHG can be selected): carbon dioxide (CO₂); methane (CH₄); nitrous oxide (N₂O); hydrofluorocarbons (HFC); perfluorocarbons (PFC); sulphur hexafluoride (SF₆); nitrogen trifluoride (NF₃).

(d) Objective means 'initial statement of the outcomes (including results and impacts) intended to be achieved by the intervention'. **Contracting Parties** shall select from the following objectives (more than one objective may be selected, additional objectives may be added and specified under 'other'):

For **energy supply** — increase in renewable energy sources in the electricity sector; increase in renewable energy in the heating and cooling sector; switch to less carbon-intensive fuels; enhanced non-renewable low carbon generation (nuclear); reduction of losses; efficiency improvement in the energy and transformation sector; carbon capture and storage or carbon capture and utilisation; control of fugitive emissions from energy production; other energy supply.

For **energy consumption** — efficiency improvements of buildings; efficiency improvement of appliances; efficiency improvement in services/tertiary sector; efficiency improvement in industrial end-use sectors; demand management/reduction; other energy consumption.

For **transport** — efficiency improvements of vehicles; modal shift to public transport or non-motorized transport; low carbon fuels; electric road transport; demand management/reduction; improved behaviour; improved transport infrastructure; reduce emissions from international air or maritime transport; other transport.

For **industrial processes** — installation of abatement technologies; improved control of fugitive emissions from industrial processes; improved control of manufacturing, fugitive and disposal emissions of fluorinated gases; replacement of fluorinated gases by gases with a lower GWP value; other industrial processes.

For **waste management/waste** — demand management/reduction; enhanced recycling; enhanced CH₄ collection and use; improved treatment technologies; improved landfill management; waste incineration with energy use; improved wastewater management systems; reduced landfilling; other waste.

For **agriculture** — reduction of fertilizer/manure use on cropland; other activities improving cropland management; improved livestock management; improved animal waste management systems; activities improving grazing land or grassland management; improved management of organic soils; other agriculture.

For **LULUCF** — afforestation and reforestation; conservation of carbon in existing forests; enhancing production in existing forests; increasing the harvested wood products pool; enhanced forest management; prevention of deforestation; strengthening protection against natural disturbances; substitution of GHG intensive feedstocks and materials with harvested wood products; prevention of drainage or rewetting of wetlands; restoration of degraded lands; other LULUCF.

For **Other** — **Contracting Parties** shall provide a brief description of the objective.

(e) **Contracting Parties** shall include, as a minimum, the figure(s), unit(s), end year and base year if the objective(s) is(are) quantified. Quantified objectives shall be specific, measurable, achievable, relevant and time-related.

(f) **Contracting Parties** shall select from the following policy types: economic; fiscal; voluntary/negotiated agreements; regulatory; information; education; research; planning; other.

(g) List here only Union policy/policies that are implemented through the national policy or where national policies are aimed directly at meeting the objectives of Union policies. **Contracting Party** shall select a policy/policies from a list provided in the electronic version of the template format, or select other and specify the name of the **Energy Community** policy. **Contracting Parties** shall select Directive (EU) 2016/2284 if the PaM has been reported under that Directive.

(h) **Contracting Parties** shall select from the following categories: planned; adopted; implemented; expired. Expired policies and measures shall be reported in the template only if they have an effect, or if they are expected to continue to have an effect on greenhouse gas emissions.

(i) **Contracting Parties** shall select from the following options and enter the name/s of entities responsible for implementing the policy or measure (more than one entity may be selected): national government; regional entities; local government; companies/businesses/industrial associations; research institutions; others not listed.

(j) **Contracting Parties** shall provide any indicator used (including the unit) and values for such indicators that they use to monitor and evaluate progress of policies and measures. Those values can be either *ex-post* or *ex-ante* values and Contracting Parties shall specify the year or years for which the value applies. Values for multiple indicators and years may be reported. Performance indicators identified by Contracting Parties shall be relevant, accepted, credible, easy and robust.

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on mitigation of climate change (a)

Ex-post assessment (e)	Documentation/ Source of estimation if available (provide a weblink of the report where the figure is referenced from)		
	Factors affected by the PaM		
	Explanation of the basis for the mitigation estimates		
	GHG emissions reduction (kt CO ₂ -equivalent per year) (b)	Total (d)	
		LULUCF (c)	
		EDS/ESR	
EU ETS			
	Year of which reduction applies		
Ex-ante assessment	Documentation / Source of estimation if available (provide a weblink of the report where the figure is referenced from)		
	Factors affected by the PaM		
	Explanation of the basis for the mitigation estimates		
	GHG emissions reductions in t + 15 (kt CO ₂ -equivalent per year)	Total (d)	
		LULUCF (c)	
		ESR	
		EU ETS	
	GHG emissions reductions in t + 10 (kt CO ₂ -equivalent per year)	Total (d)	
		LULUCF (c)	
		ESR	
		EU ETS	
	GHG emissions reductions in t + 5 (kt CO ₂ -equivalent per year)	Total (d)	
		LULUCF (c)	
		ESR	
		EU ETS	
	GHG emissions reductions in year t (kt CO ₂ -equivalent per year)	Total (d)	
		LULUCF (c)	
		ESR	
		EU ETS	
	Policy impacting EU ETS, LULUCF and/or ESD/ESR /emission		
		PaM number	

Abbreviations: EU ETS = EU Emission Trading System; ESR = Effort Sharing Regulation (EU) 2018/842; ESD = Effort Sharing Decision No 406/2009/EC; LULUCF = land use, land-use change and forestry.

Notes:

(a) **Contracting Parties** shall report on all the policies and measures or groups of policies and measures for which such assessment is available. Notation: t signifies the first future year ending with 0 or 5 immediately following the reporting year.

(b) **Contracting Parties** may report ex-post assessments for more than one year, where available reporting shall focus on years ending with 0 or 5.

(c) Enhanced removals or decreased emissions of greenhouse gases shall be expressed as a positive number. Decreased removals or increased emissions shall be expressed as a negative number.

(d) In this field, the total of the EU ETS and ESR sectors shall be entered if the split between EU ETS and ESR is not available.

(e) Ex-post evaluations include all evaluations based on results from parts of, or the whole implementation period.

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change (a)

Realized costs and benefits	Description of non-GHG mitigation benefits.	
	Documentation / Source of cost estimation (provide a weblink of the report where the figure is referenced from)	
	Description of cost estimates (Basis for cost estimate, what type of costs are included in the estimate, methodology) (c)	
	Price year	
	Absolute net cost per year in EUR	
	Net costs in EUR per tonne CO ₂ -equivalent reduced/ sequestered	
	Absolute benefit (b) per year in EUR	
	Benefits (b) in EUR per tonne CO ₂ -equivalent reduced/ sequestered	
	Absolute gross costs per year in EUR	
	Gross costs in EUR per tonne CO ₂ -equivalent reduced/sequestered	
	Year(s) for which cost has been calculated	
Projected costs and benefits	Description of non-GHG mitigation benefits	
	Documentation / Source of cost estimation (provide a weblink of the report where the figure is referenced from)	
	Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology) (c)	
	Price year	
	Absolute net cost per year in EUR	
	Net costs in EUR per tonne CO ₂ -equivalent reduced/ sequestered	
	Absolute benefit (b) per year in EUR	
	Benefits(b) in EUR per tonne CO ₂ -equivalent reduced/ sequestered	
	Absolute gross costs per year in EUR	
	Gross costs in EUR per tonne CO ₂ -equivalent reduced/sequestered	
	Year(s) for which cost has been calculated	
	PaM number	

Notes:

(a) **Contracting Parties** shall report on all the policies and measures or groups of policies and measures for which such assessment is available.

(b) A benefit shall be indicated in the template as a negative cost.

(c) The description shall include the type of costs and benefits that have been taken into consideration, the stakeholders considered in the assessment of costs and benefits, the baseline against which costs and benefits are compared, and the methodology.

ANNEX XXV

Reporting on national projections pursuant to Article 38

Table 1a: Greenhouse gas projections by gases and categories (1)

Category (2)	Separately for: CO ₂ , CH ₄ , N ₂ O, SF ₆ , NF ₃ , (kt) and HFCs, PFCs, unspecified mix of HFCs and PFCs- (kt CO ₂ -eq) (3)					Total GHG emissions (kt CO ₂ -eq)					ETS emissions (kt CO ₂ -eq) (4)					ESR emissions (kt CO ₂ -eq) (5)									
	Year					Year					Year					Year									
	projection base year (6)	t - 5 (7)	t	t + 5	t + 10	t + 15	projection base year	t - 5	t	t + 5	t + 10	t + 15	projection base year	t - 5	t	t + 5	t + 10	t + 15	projection base year	t - 5	t	t + 5	t + 10	t + 15	
Total excluding LULUCF																									
Total including LULUCF																									
1. Energy																									
A. Fuel combustion																									
1. Energy industries																									
a. Public electricity and heat production																									
b. Petroleum refining																									
c. Manufacture of solid fuels and other energy industries																									
2. Manufacturing industries and construction																									
3. Transport																									
a. Domestic aviation																									
b. Road transportation																									
c. Railways																									
e. Other transportation																									
4. Other sectors																									
a. Commercial/ Institutional																									
b. Residential																									
c. Agriculture/ Forestry/ Fishing																									
5. Other																									
B. Fugitive emissions from fuels																									
1. Solid fuels																									

Table 2: Indicators to monitor and evaluate projected progress of policies and measures if used

Indicator (1)/ numerator/ denominator	Unit	Guidance/definition	Guidance/ source	Indicator used (Yes/No)	With existing measures					With additional measures									
					Base year	t	t + 5	t + 10	t + 15	Base year	t	t + 5	t + 10	t + 15					
Carbon Intensity of the overall economy	tCO ₂ eq/ GDP	EUR (2016); Carbon intensity to be calculated with GDP as defined by Eurostat																	
GHG intensity of domestic power and heat generation	tCO ₂ / MWh	MWh of gross electricity and heat generation as defined by Eurostat																	
GHG intensity of final energy consumption by sector																			
Industry	tCO ₂ eq/ toe																		
Residential	tCO ₂ eq/ toe																		
Tertiary	tCO ₂ eq/ toe																		
Transport	tCO ₂ eq/ toe																		
Passenger transport (when available)	tCO ₂ eq/ toe																		
Freight transport (when available)	tCO ₂ eq/ toe																		
<i>Add a line for each other indicator</i>																			

Notation: t signifies the first future year ending with 0 or 5 immediately following the reporting year

Notes:

(1) Please add a row per indicator used in the projections.

Table 3: Reporting on parameters / variables for projections, if used (1) (2)

Parameter used (3) (‘with existing measures’ scenario)	Year	Values	Default unit	Sectoral projections for which the parameter is used (6)																
				Comment for guidance			EUR (2016) (8)	EUR (2016)	EUR (2016)	EUR (2016)	EUR (2016)	EUR (2016)	EUR (2016)	EUR (2016)						
1. General parameters and variables		t + 15																		
		t + 10																		
		t + 5																		
		t																		
		t - 5																		
		Base = Reference year																		
		Base = Reference year																		
		Parameter / variable part of projections (6)																		

Freight transport tonnes-kilometres – do- mestic navigation (inland waterways and national maritime)	Coal	International (wholesale) fuel import prices	million tkm	either EUR/ GJ	or EUR/tonne	EUR (2016); Indicate if Commission recommen- dation has been followed; for calorific values use values published by Eurostat		
	Crude Oil		million tkm	either EUR/ GJ	or EUR/tonne	EUR (2016); Indicate if Commission recommen- dation has been followed		
Natural gas		million tkm	either EUR/ GJ	or EUR/tonne	EUR (2016); Indicate if Commission recommen- dation has been followed; for calorific values use values published by Eurostat			
EU ETS carbon price			EUR/EUA		EUR (2016); Indicate if Commission recommen- dation has been followed			

3. Non-CO ₂ emission related parameters																	
3.1 Agriculture																	
Livestock																	
Dairy cattle																	1 000 heads
Non-dairy cattle																	1 000 heads
Sheep																	1 000 heads
Pig																	1 000 heads
Poultry																	1 000 heads
Nitrogen input from application of synthetic fertilizers																	kt nitrogen
Nitrogen input from application of manure																	kt nitrogen
Nitrogen fixed by N-fixing crops																	kt nitrogen
Nitrogen in crop residues returned to soils																	kt nitrogen
Area of cultivated organic soils																	1 000 hectares
3.2 Waste																	
Municipal solid waste (MSW) generation																	t
Municipal solid waste (MSW) going to landfills																	t
Share of CH ₄ recovery in total CH ₄ generation from landfills																	%

4. LULUCF												
4.1 Managed forest land												
Forest harvest removals for energy use											1 000 cubic meters	
Forest harvest removals for non-energy use											1 000 cubic meters	
Forest increment											1 000 cubic meters	
Forest disturbances included in modelling											Yes / No	
Forest land remaining forest land											1 000 hectares	
4.2 Afforested land												
Forest harvest removals for energy use											1 000 cubic meters	
Forest harvest removals for non-energy use											1 000 cubic meters	
Forest increment											1 000 cubic meters	
Cropland converted to forest land											1 000 hectares	
Grassland converted to forest land											1 000 hectares	
Wetlands converted to forest land											1 000 hectares	
Settlements converted to forest land											1 000 hectares	
Other land converted to forest land											1 000 hectares	
4.3 Deforested land												
Forest land converted to cropland											1 000 hectares	

Table 5a

<...>

Table 5b

<...>

Table 6

<...>

Table 7: Key parameters that were varied in the sensitivity analysis

(Submit for each sensitivity scenario calculated). Only those parameters are to be filled in that were varied in a specific scenario.

Parameter values in sensitivity scenario		Year	Values					Default unit	Comment for Guidance
			Parameter varied (1)	Base = Reference year	Base = Reference year	t- 5	t		
General parameters and variables									
Population								Count	
Gross domestic product (GDP)	Real growth rate							%	
	Constant prices							EUR million	EUR (2016) (2)
Gross value added (GVA) – total								EUR million	EUR (2016)
Gross value added (GVA) – agriculture								EUR million	EUR (2016)
Gross value added (GVA) – construction								EUR million	EUR (2016)
Gross value added (GVA) – services								EUR million	EUR (2016)
Gross value added (GVA) – energy sector								EUR million	EUR (2016)
Gross value added (GVA) – industry								EUR million	EUR (2016)
International (wholesale) fuel import prices	Coal							EUR/GJ	EUR (2016)
								EUR/toe	EUR (2016)
	Crude Oil							EUR/GJ	EUR (2016)
								EUR/toe	EUR (2016)
	Natural gas							EUR/GJ	EUR (2016)
								EUR/toe	EUR (2016)
EU ETS carbon price								EUR/ EUA	EUR (2016)
Number of heating degree days (HDD)								Count	

Number of cooling degree days (CDD)										Count	
Number of passenger-kilometres (all modes)										million pkm	
Freight transport tonnes-kilometres (all modes)										million tkm	
<i>(Add rows for further parameters that were varied)</i>											

Note: add rows at the end of the Table for other parameters varied. Leave those lines empty for which parameters were not varied.

(1) Indicate with Yes / No.

(2) Any update of this base year for expressing monetary values shall be part of the recommendations by the Commission on harmonised values for key supra-nationally determined parameters under Article 38(3) of this Regulation.

