|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description: Description: Description: _unlogo | United Nations | FCCC/ARR/[Year]/[Party] | | |
|  | | |  | Distr.: General  DD Month Year  English only |



Report on the individual review of the inventory submission of Party submitted in 2015[[1]](#footnote-1)\*

Statement from Party on the final report

|  |
| --- |
| ***Guidance****: this space is for use by the Party and is not to be completed by the ERT. It is provided specifically for the inclusion of a written comment by the Party in response to para. 57 to the annex of decision 13/CP.20. It also may, however, be used to fulfil additional provisions of decision 13/CP.20 as well (see paras. below):*  Para. 57: *Following their completion, all review reports shall be published and forwarded by the secretariat, together with a written comment on the final review report made by the Party under review, to the Party concerned, the COP and the subsidiary bodies, as appropriate, following these guidelines.*  ***Para.*** *66…. In the case of an Annex I Party and the expert team being unable to agree on an issue, the Party may provide explanatory text to be included in a separate section of the final review report…*  ***Para****. 73 …The Party may respond to an ERT identification of an issue with information about the amount of effort and resources required for an improvement relative to the impact on the level and/or trend of total national GHG emissions or removals for consideration by the ERT…*  ***Para****. 90(e). All final review reports together with any written comments on the final review report by the Annex I Party that is the subject of the report, shall be published on the UNFCCC website within two weeks and forwarded by the secretariat to the COP.*  *[Comment by Party]* |

Contents

*Paragraphs Page*

Statement from Party on the final report 2

I. Introduction 4

II. Summary and general assessment of inventory 6

III. Status of implementation of recommendations made in previous review reports 8

IV. Additional findings based on the 2016 technical review 9

V. Issues identified in three successive reviews and not addressed by the Party 10

Annexes

I. Additional information to support findings in Table 3……………………………………………… 12

II. Documents and information used during the review……………………………………………… 13

III. Acronyms and abbreviations 15

[IV. Supplementary information 16]

I. Introduction

* + - 1. This report covers the review of the Year inventory submission of Party, coordinated by the UNFCCC secretariat, in accordance with the “Guidelines for the technical review of information reported under the Convention related to greenhouse gas inventories, biennial reports and national communications by Parties included in Annex I to the Convention” and particularly Part III “UNFCCC guidelines for the technical review of greenhouse gas inventories from Parties included in Annex I to the Convention” (hereinafter referred to as the UNFCCC Annex I inventory review guidelines) (decision 13/CP.20). The review took place from X to X Month Year in City, Country, and was conducted by the following team of nominated experts from the UNFCCC roster of experts: [Ms.][Mr.] XXX (Country)[ and [Ms.][Mr.] XXX (Country)]; energy – [Ms.][Mr.] XXX (Country)[ and [Ms.][Mr.] XXX (Country)]; industrial processes and solvent and other product use – [Ms.][Mr.] XXX (Country)[ and [Ms.][Mr.] XXX (Country)]; agriculture – [Ms.][Mr.] XXX (Country)[ and [Ms.][Mr.] XXX (Country)]; land use, land-use change and forestry (LULUCF) – [Ms.][Mr.] XXX (Country)[ and [Ms.][Mr.] XXX (Country)]; and waste – [Ms.][Mr.] XXX (Country)[ and [Ms.][Mr.] XXX (Country)]. [Ms.][Mr.] XXX and [Ms.][Mr.] XXX were the lead reviewers. The review was coordinated by [Ms.][Mr.] XXX (UNFCCC secretariat).
      2. Tables 1 and 2 show GHG emissions under the Convention for Party, by gas and by sector, respectively. In table 1, CO2, CH4 and N2O emissions do not include emissions and removals from the LULUCF sector.

**Table 1** [Note:*Secretariat will complete BEFORE the review-table and footnotes. Provide to LR’s for final check before submitting to QA]*

**Greenhouse gas emissions by gas, 1990 to [Year-2]  
[Guidance**: 2 digits after decimal point for emissions, one for % change]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | *CO2* | *CH4* | *N2O* | *HFCs* | *PFCs* | *SF6* | *NF3* |
|  |  |  |  | *Gg CO2 eq* |  |  |  |
| Base Year |  |  |  |  |  |  |  |
| 1995 |  |  |  |  |  |  |  |
| 2008 |  |  |  |  |  |  |  |
| 2009 |  |  |  |  |  |  |  |
| 2010 |  |  |  |  |  |  |  |
| 2011 |  |  |  |  |  |  |  |
| 2012 |  |  |  |  |  |  |  |
| 2013 |  |  |  |  |  |  |  |
| **% Change BY–2013** |  |  |  |  |  |  |  |

*Abbreviations:* [NA = not applicable][,] [NE = not estimated][, ] [NO = not occurring].

Table 2 [Note:*Secretariat will complete BEFORE the review-table and footnotes. Provide to LR’s for final check before submitting to QA]*

**Greenhouse gas emissions by sector, 1990 to [Year-2]  
[Guidance**: 2 digits after decimal point for emissions, one for % change]

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | *Gg CO2 eq* | | | | | | ***Total (w/o LULUCF)*** | *Other* |
| *Energy* | *IPPU* | *Agriculture* | *LULUCF* | *Waste* | ***Total (w/ LULUCF)*** |
| Base Year |  |  |  |  |  |  |  |  |
| 1995 |  |  |  |  |  |  |  |  |
| 2008 |  |  |  |  |  |  |  |  |
| 2009 |  |  |  |  |  |  |  |  |
| 2010 |  |  |  |  |  |  |  |  |
| 2011 |  |  |  |  |  |  |  |  |
| 2012 |  |  |  |  |  |  |  |  |
| 2013 |  |  |  |  |  |  |  |  |
| **% change BY–2013** |  |  |  |  |  |  |  |  |

*Abbreviations*: [IE = included elsewhere], IPPU= industrial processes and product use, LULUCF = land use, land-use change and forestry, [NA = not applicable]

[,][NE = not estimated, ][NO = not occurring]

II. Summary and general assessment of inventory

Table 3

**Summary of the results of the inventory review and a general assessment of the inventory by the ERT**

| *Issue assessed* | | ***Assessment (reference to Table X below)*** | |
| --- | --- | --- | --- |
| **Dates of submission** | Original submission: Date (NIR), Date (CRF tables)  Revised submission(s): Date *Guidance: Include one line for each revised submission received*  The values from the latest submission are used in this report |  | |
| **Review format** | Format of review: [In-country ][centralized ][desk review]  ***Guidance****:* Include for Desk Reviews only: [The full list of categories assessed during this desk review, pursuant to paragraph 76 of the annex to decision 13/CP.20 may be found in Annex I.] ***Guidance****: When carrying out a desk review, the assessment below is conducted with respect to key categories and categories that have been recalculated and meet the criteria in paragraph 76(b)* |  | |
| **Adherence to the UNFCCC Annex I inventory reporting guidelines** | Have any problems been identified in the following areas:  1. Identification of key categories  2. Selection and use of methodologies and assumptions  3. Development and selection of emission factors  4. Collection and selection of activity data  5. Reporting of recalculations and consistent time-series  6. Reporting of uncertainties, including methodologies  7. QA/QC  8. Other departures from the UNFCCC Annex I inventory reporting (including transparency) | 1. [Y/N]  2. [Y/N]  3. [Y/N]  4. [Y/N]  5. [Y/N]  6. [Y/N]  7. [Y/N]  8. [Y/N] | |
| **Completeness** | 1. Is the inventory complete,[[2]](#footnote-2)  ***Guidance****: if “N” is listed for any sector, please add the following* language: [Missing categories which affect completeness are included in Annex 1 below]  2. If a category is not estimated based on being insignificant, has the Party provided information meeting the criteria in paragraph 37(b) of the UNFCCC Annex I inventory reporting guidelines? | 1. Energy: Y/N 2. Agriculture: Y/N 3. LULUCF: Y/N   2. NA | IPPU: Y/N  Waste: Y/N |
| **Corrections** | Have emissions been reported without corrections (e.g. related to climate variations or electricity trade)?[[3]](#footnote-3) | Y/N | |
| **National inventory arrangements** | **(for in-country)** Have any problems been identified in the ability of the national inventory arrangements for the estimation of anthropogenic GHG emissions by sources and removals by sinks to perform the required functions and facilitate the continuous improvement of the GHG inventory?  Are the institutional, procedural and legal arrangements [including the changes to the national inventory arrangements discussed by the Party during the review] effective and reliable for estimating GHG emissions?  **(for centralized**) Have there been any changes to the national inventory arrangements  If yes, do thenational inventory arrangements for the estimation of anthropogenic GHG emissions by sources and removals by sinks continue to perform the required functions and facilitate the continuous improvement of the GHG?  Are the institutional, procedural and legal arrangements effective and reliable for estimating GHG emissions  **(for DR).** This review was conducted as a desk review and the national inventory arrangements were not reviewed | [Y/N]  [Y/N]  [Y/N]  [Y/N]  [NA] | |
| **Implementation of previous recommendations** | Have recommendations made in the previous review report been implemented?    The ERT notes that the previous review report was published on date. Based on the timing of completion of the ARR, and taking into consideration the availability of the list of preliminary recommendations provided to the Party immediately after the review, and national circumstances, the ERT concludes that the Party [has][has not] demonstrated sufficient progress in implementing improvements] | [all/some/none]  Y/N | |
| **Response from the Party during review** | Has the Party provided the ERT with responses to the questions raised and the data and information necessary for the assessment of conformity with the UNFCCC Annex I inventory reporting guidelines and any further guidance adopted by the COP | Y/N | |
| **Recommendation for an exceptional in-country review** | Based on the findings of the review, does the ERT recommend that the next review be conducted as an in-country review? **Guidance**: If yes, include the following language: [Please refer to annex I for the list of questions and issues to be considered during the in-country review] | Y/N | |

III. Status of implementation of recommendations made in previous review reports   
Note: The secretariat will pre-fill the template with all previous recommendations; ERT will complete “issue resolved” and “rationale” columns. Section not relevant for 2015, see below.

**Guidance**. The review guidelines require tracking of the implementation of previous review recommendations. This table should include all recommendations made in the previous review report. It is the ERT’s job to assess whether each recommendation has been resolved (inset “yes” or “no”) and to provide a rationale for the ERT’s assessment of the issue. The ERT should assess whether the specific recommendation from the previous report has been addressed or not; it is possible that the ERT determines that the specific recommendation has been addressed (e.g., a Party updated a default EF to a country specific EF), but believes that the NIR should better describe the assumptions used to develop the country-specific factor (which wasn’t part of the original recommendation). If this is the case, the ERT should indicate that the specific recommendation has been “resolved” and provide a rationale for its assessment, and then open a new issue/recommendation in Table 5 below.

**Guidance**: Include the following text for the 2015 review: [This section is not applicable in 2015 as Parties are using the new UNFCCC Annex I inventory reporting guidelines for the first time for the 2015 annual submission.]

Table 4

**Guidance:** In the first column you will see the year of the ARR in which the recommendation first appeared (2015), along with the issue number (issue #1 in 2015, and # 5 in the 2016 ARR). This way, ERTs can track back to find the original recommendation, and easily see the number of years in which the recommendation was subsequently reiterated

| *Issue number* (and as referenced in table 5 of previous ARR(s) (year)) | *Recommendations made in previous review report* | *Issue resolved?* | *Rationale* |
| --- | --- | --- | --- |
| *General* |  |  |  |
| 1 (1, 2015  (5, 2016) | **[**Category, fuels, gases] (for a list of category names to use see X) | [Y/N] | [Rationale] |
| *Energy* |  | [Y/N] | [Rationale] |
| *IPPU* |  | [Y/N] | [Rationale] |
| *Agriculture* |  | [Y/N] | [Rationale] |
| *LULUCF* |  | [Y/N] | [Rationale] |
| *Waste* |  | [Y/N] | [Rationale] |

IV. [Additional] findings based on the [Year] technical review

Table 5

| *Category and findings* | *Identification of issues, recommendations and encouragements* |
| --- | --- |
| **Guidance.** For each issue**:**  **Indicate:** [issue number]: [category:][fuel - ][gases]  **Describe the issue/findings, including**: issue identified by the ERT, communication with Party during the review, rationale for why the ERT concludes what the Party is doing is not consistent with the UNFCCC Annex I inventory reporting guidelines. | **Guidance.** For each issue**:**  **Indicate:** [strong recommendation][recommendation] [encouragement]: **identify the type(s) of issue using the following:** [transparency]; [consistency]; [comparability], [completeness]; [accuracy];[ other ([adherence to the UNFCCC Annex I inventory reporting guidelines][ IPCC good practice])]  **Include the recommendation:** Please make the recommendation as specific as possible so that it may stand on its own. Please note that in subsequent years only the recommendation will appear in the report (in table 4 above) |
| *Energy* ***Examples:***  *1. Stationary combustion: liquid fuels-CO2*  Party has reported that XYZ. The ERT considers that this is not in accordance with section xxxx of the2006 IPCC Guidelines on National GHG Inventories because XYZ. During the review, Party explained that XYZ. The ERT finds XZY | **Examples:**  **Recommendation: Transparency, accuracy**  Include information provided by the Party related to XYZ in its [NIR][annual submission]. |
| *IPPU*  *2. Cement production: CO2.*  Party has reported that XYZ. The ERT considers that this is not in accordance with section xxxx of the UNFCCC reporting guidelines because XYZ. During the review, Party explained that XYZ. The ERT finds XZY | **Recommendation: consistency**  Include information provided by the Party related to the trend of XYZ in its [NIR][annual submission]. |
| *Agriculture* |  |
| *LULUCF* |  |
| *Waste* |  |

V. Issues identified in three successive reviews and not addressed by the Party

**Important note:** Given the new UNFCCC annex I inventory reporting guidelines and new guidelines, it is assumed that this section/paragraph would not appear until the review report for the 2018 inventory submission.

**Guidance:** This section should highlight any issues identified in accordance with paragraph 83 of decision 13/CP.20:

“*The ERT will identify issues, in particular those relating to accuracy and completeness for key categories as described in paragraph 73 above, missing categories as described in paragraph 75(d) above, or potential key categories as identified by the ERT and that could not be clarified with the Party during the review week. In the case where, after such an issue has been identified in three successive reviews, in accordance with paragraphs 75(f) and 76(a) above, and has not been addressed by the Party, the ERT will include a prominent paragraph in the review report noting the issue, the number of successive reviews in which the Party has been notified of the issue, and that the Party has not addressed the issue.”*

Annex I

**Additional information to support findings in table 3**

1. **List of categories assessed during the desk** **review**

**[***[if applicable, include list in the order of the IPCC categories]]*

**[**NA]

1. **Missing categories which affect completeness**

**[***[if applicable, include list in the order of the IPCC categories]]*

**[**NA]

1. **Recommendation for an exceptional in-country review: list of issues**

*[if applicable, provide the list of questions and issues to be considered during the in-country review]*

[The ERT does not recommend that an exception in-country review be carried out.]

Annex II

Documents and information used during the review   
Note: Secretariat will complete BEFORE the review week

A. Reference documents

Intergovernmental Panel on Climate Change. *2006 IPCC Guidelines for National Greenhouse Gas Inventories*. Available at   
<http://www.ipcc-nggip.iges.or.jp/public/2006gl/index.html>.

“Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part I: UNFCCC reporting guidelines on annual greenhouse gas inventories”. FCCC/CP/2013/10/Add.3. Available at   
http://unfccc.int/resource/docs/2013/cop19/eng/10a03.pdf#page=2

Guidelines for the technical review of information reported under the Convention related to greenhouse gas inventories, biennial reports and national communications by Parties included in Annex I to the Convention. FCCC/CP/2014/10/Add.3. Available at   
<http://unfccc.int/resource/docs/2014/cop20/eng/10a03.pdf>.

Status report for Party 2015. Available at   
<http://unfccc.int/resource/docs/2015/asr/xxx.pdf>.

Synthesis and assessment report on the greenhouse gas inventories submitted in 2015. Available at <http://unfccc.int/resource/webdocs/sai/2015.pdf> (TO BE UPDATED).

FCCC/ARR/2014/ISO-Code. Report of the individual review of the annual submission of Party submitted in 2014. Available at   
<http://unfccc.int/resource/docs/2014/arr/xxx.pdf>.

**B. Additional information provided by the Party**

Responses to questions during the review were received from [Ms.][Mr.] XXX (organization), including additional material on the methodology and assumptions used. [The following documents[[4]](#footnote-4) were also provided by Party:

Author. Year. *Title in Italics and in Title Case* (English translation if appropriate). [City: Publisher.] [Available at <web address>.]]

Annex III

Acronyms and abbreviations

AD activity data

C carbon

CH4 methane

CMP Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol

CO2 carbon dioxide

CO2 eq carbon dioxide equivalent

COD chemical oxygen demand

CRF common reporting format

DOC degradable organic carbon

DOCf fraction of DOC dissimilated

DOM dead organic matter

EF emission factor

ERT expert review team

GHG greenhouse gas; unless indicated otherwise, GHG emissions are the sum of CO2, CH4, N2O, HFCs, PFCs and SF6 without GHG emissions and removals from LULUCF

ha hectare

HFCs hydrofluorocarbons

IE included elsewhere

IEA International Energy Agency

IEF implied emission factor

IPCC Intergovernmental Panel on Climate Change

ITL international transaction log

k decay rate

kg kilogram (1 kg = 1,000 grams)

LULUCF land use, land-use change and forestry

m3 cubic metre

MCF methane conversion factor

MSW municipal solid waste

N nitrogen

N2O nitrous oxide

NA not applicable

NE not estimated

NIR national inventory report

NO not occurring

PFCs perfluorocarbons

PJ petajoule (1 PJ = 1015 joule)

QA quality assurance

QA/QC quality assurance/quality control

SF6 sulphur hexafluoride

TJ terajoule (1 TJ = 1012 joule)

UNFCCC United Nations Framework Convention on Climate Change

[Annex IV]

[Supplementary information]

**Guidance:** If, in exceptional circumstances, additional space is needed to provide important supplementary information to the main part of the report, the review team may use this annex. Please limit the annex to information necessary to clarify specific issues, with reference to the relevant chapter of the report. Also keep in mind that detailed information on issues identified should be recorded in the review transcript. Please make efforts to avoid the use of this annex and keep the length of the review report within the limits set by the review guidelines.

1. \* In the symbol for this document, Year refers to the year in which the inventory was submitted, and not to the year of publication. [↑](#footnote-ref-1)
2. [↑](#footnote-ref-2)
3. See paragraph 75(i) of the annex to decision 13/CP.20. [↑](#footnote-ref-3)
4. Reproduced as received from the Party. [↑](#footnote-ref-4)