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Report on the simplified review of the national inventory report of the Kingdom of the Netherlands* submitted in 2025

Summary

This report presents the results of the simplified review of the 2025 national inventory report of the Netherlands, conducted by the secretariat in accordance with the modalities, procedures and guidelines for the transparency framework for action and support referred to in Article 13 of the Paris Agreement.

* As reporting under the UNFCCC is only required for the European part of the Kingdom of the Netherlands, the scope of the national inventory report submitted by the Party is limited to the European part of the Kingdom (referred to as “the Netherlands”).



Abbreviations and acronyms

| | |
|-------------------------------|--|
| C ₂ F ₆ | hexafluoroethane |
| CF ₄ | tetrafluoromethane |
| CH ₄ | methane |
| CO ₂ | carbon dioxide |
| CO ₂ eq | carbon dioxide equivalent |
| CRF | common reporting format |
| CRT | common reporting table |
| ETF | enhanced transparency framework under the Paris Agreement |
| GHG | greenhouse gas |
| HFC | hydrofluorocarbon |
| IE | included elsewhere |
| IEF | implied emission factor |
| LULUCF | land use, land-use change and forestry |
| MPGs | modalities, procedures and guidelines for the transparency framework for action and support referred to in Article 13 of the Paris Agreement |
| N | nitrogen |
| N ₂ O | nitrous oxide |
| NA | not applicable |
| NE | not estimated |
| NF ₃ | nitrogen trifluoride |
| NIR | national inventory report |
| NO | not occurring |
| PFC | perfluorocarbon |

I. Introduction

1. This report covers the simplified review of the NIR of the Netherlands submitted in 2025. The review was conducted by the secretariat in accordance with the MPGs,¹ particularly chapter VII thereof, and the simplified review procedures.²
2. On 21 May 2025 a draft version of this report was transmitted to the Government of the Netherlands,³ which did not provide any comments on individual findings. The Netherlands provided general comments on the report on 12 June 2025 (see chap. II.B below).
3. The secretariat conducted the simplified review of the NIR of the Netherlands, which involved an initial assessment of completeness and consistency with the MPGs.⁴
4. The findings of the initial assessment, presented in the annex, are the result of automated checks and do not necessarily indicate issues of completeness or consistency of the Party's reporting with the MPGs.
5. This report, including the findings listed in the annex and any comments provided by the Party (see para. 2 above), will be made available to and considered by the technical expert review team as part of the subsequent technical expert review of the NIR of the Netherlands.⁵

II. Initial assessment of completeness and consistency with the modalities, procedures and guidelines

A. Summary of findings

6. The table below provides a summary of the findings of the initial assessment by the secretariat. Tables I.1–I.7 list the findings and include detailed information on each one.

Summary of the initial assessment

| Area of review | Description | Assessment |
|-----------------------------------|---|---------------|
| Dates of submission | 2025 submission: CRTs, 15 April 2025 2024 submission: CRTs, 19 November 2024 | |
| Recalculations | Recalculations that have changed estimated total GHG emissions or removals (excluding LULUCF) by more than 2 per cent for categories or subcategories above the threshold of significance (71.32 kt CO ₂ eq for 2023) ^a Recalculations for 1990 (the reference year for the Party's nationally determined contribution) and 2022 since the previous submission | See table I.1 |
| Completeness | Detection of notation key "NE", or of missing gases or sectors in CRT 10 emission trends summary | See table I.2 |
| Notation keys | Changes in notation keys reported for 1990 and 2022 since the previous submission | See table I.3 |
| Sectoral and reference approaches | Difference in estimated energy consumption or CO ₂ emissions, by fuel type, of more than 5 per cent between the reference and sectoral approaches for the latest reported year (2023) | See table I.4 |
| Time-series consistency | The time series of emissions is assessed by calculating inter-annual changes for each category and gas and converting them to CO ₂ eq. Inter-annual changes exceeding the significance threshold are evaluated using the z-score method, ^b where outliers | See table I.5 |

¹ Decision 18/CMA.1, annex.

² Contained in paras. 15–19 of the conclusions and recommendations from the 2023 joint meeting of lead reviewers, available at <https://unfccc.int/documents/627213>.

³ As per para. 163 of the MPGs.

⁴ As per para. 155 of the MPGs.

⁵ As per para. 155 of the MPGs.

| <i>Area of review</i> | <i>Description</i> | <i>Assessment</i> |
|-------------------------------|--|-------------------|
| | are identified as values exceeding a z-score of 3, based on the statistical distribution of the full time series | |
| IEFs | Comparison of IEFs reported for any significant subcategories under key categories with the range of IEFs reported by developed country Parties for the latest inventory year (2023) in their 2025 submission ^c | See table I.6 |
| Key categories | New key categories identified since the previous submission for level (latest year) and trend | See table I.7 |
| Previous areas of improvement | Status of implementation of previous areas of improvement identified in the latest report on the technical expert review of the Party's biennial transparency report | NA ^d |

^a Threshold calculated by the secretariat as 0.05 per cent of the national total GHG emissions for 2023, excluding LULUCF, or 500 kt CO₂ eq, whichever is lower (see para. 32 of the MPGs).

^b Statistical measure that indicates how many standard deviations a data point is from the mean.

^c Range defined by the median plus or minus two times the standard deviation, calculated from all available data points per category.

^d As at the time of publication of this report, information on status of implementation of previous areas of improvement was not yet available.

B. Comments of the Party on the initial assessment

7. The Party provided general comments,⁶ which are reported in the box below.

We would like to thank the secretariat for the conducted work and the findings. As a general clarification in relation to a number of findings, we would like to note that in the transition from the CRF to the ETF Reporting Tool there were still some lingering issues with notation keys, units, et cetera. This will be resolved in the next submission.

⁶ The comments provided by the Netherlands are presented verbatim.

Annex

Findings of the initial assessment of the 2025 national inventory report of the Netherlands

Tables I.1–I.7 detail the findings of the initial assessment by the secretariat of the Party's NIR.

Table I.1
Findings on recalculations

| <i>ID#</i> | <i>Category</i> | <i>CRT</i> | <i>Gas</i> | <i>Inventory year</i> | <i>Estimate in latest submission (2025)</i> | <i>Estimate in previous submission (2024)</i> | <i>Difference Unit</i> | <i>Difference (%)</i> | <i>Difference (kt CO₂ eq)</i> |
|------------|---|------------|---|---------------------------|---|---|-------------------------------|-----------------------|--|
| I.1.1. | 1.A.2.g. Other | Table1 | CO ₂ | 1990 | 4 296.84 | 4 401.89 | –105.05 kt | –2.4 | –105.05 |
| I.1.2. | 1.A.4.a. Commercial/institutional | Table1 | CO ₂ | 1990 | 8 551.56 | 8 372.20 | 179.35 kt | 2.1 | 179.35 |
| I.1.3. | 1.B.2.b. Natural gas | Table1 | CH ₄ | 1990 | 21.31 | 16.84 | 4.47 kt | 26.5 | 125.20 |
| I.1.4. | 1.A.3.b. Road transportation | Table1 | N ₂ O | 2022 | 1.05 | 0.68 | 0.37 kt | 55.0 | 99.01 |
| I.1.5. | 1.A.4.a. Commercial/institutional | Table1 | CO ₂ | 2022 | 5 820.88 | 5 696.34 | 124.54 kt | 2.2 | 124.54 |
| I.1.6. | 1.B.2.b. Natural gas | Table1 | CH ₄ | 2022 | 12.03 | 8.61 | 3.42 kt | 39.7 | 95.80 |
| I.1.7. | 2.F.1. Refrigeration and air conditioning | Table2(I) | HFCs | 2022 | 478.31 | 763.59 | –285.29 kt CO ₂ eq | –37.4 | –285.29 |
| I.1.8. | 2.F.1. Refrigeration and air conditioning | Table2(II) | HFC-125 | 2022 | 31.62 | 66.49 | –34.87 t | –52.4 | –110.53 |
| I.1.9. | 2.F.1. Refrigeration and air conditioning | Table2(II) | HFC-143a | 2022 | 4.39 | 24.61 | –20.22 t | –82.2 | –97.07 |
| I.1.10. | 4.B.2. Land converted to cropland | Table4 | Net CO ₂ emissions/removals | 1990 | 1 746.92 | 1 398.41 | 348.51 kt CO ₂ eq | 24.9 | 348.51 |
| I.1.11. | 4.C.1. Grassland remaining grassland | Table4 | Net CO ₂ emissions/removals | 1990 | 2 422.54 | 3 258.33 | –835.79 kt CO ₂ eq | –25.7 | –835.79 |
| I.1.12. | 4.C.2. Land converted to grassland | Table4 | Net CO ₂ emissions/removals | 1990 | –689.70 | –329.31 | –360.40 kt CO ₂ eq | –109.4 | –360.40 |
| I.1.13. | 4.A.1. Forest land remaining forest land | Table4 | Net CO ₂ emissions/removals | 2022 | –1 359.69 | –790.17 | –569.52 kt CO ₂ eq | –72.1 | –569.52 |
| I.1.14. | 4.B.2. Land converted to cropland | Table4 | Net CO ₂ emissions/removals | 2022 | 1 537.06 | 1 257.57 | 279.48 kt CO ₂ eq | 22.2 | 279.48 |
| I.1.15. | 4.C.1. Grassland remaining grassland | Table4 | Net CO ₂ emissions/removals | 2022 | 1 960.90 | 2 575.77 | –614.86 kt CO ₂ eq | –23.9 | –614.86 |
| I.1.16. | 4.C.2. Land converted to grassland | Table4 | Net CO ₂ emissions/removals | 2022 | –771.52 | –145.04 | –626.48 kt CO ₂ eq | –431.9 | –626.48 |
| I.1.17. | 4.E.1. Settlements remaining settlements | Table4 | Net CO ₂ emissions/removals | 2022 | 392.45 | 463.97 | –71.52 kt CO ₂ eq | –15.4 | –71.52 |

Table I.2
Findings on completeness

| ID# | Sector, category or gas | CRT | Gas | Inventory | Notation key | Finding type |
|---------|--|-----------|---------------------|-----------|--------------|----------------------------|
| | | | | year | | |
| I.2.1. | 4.B.2. Land converted to cropland | Table4 | CH ₄ | 1990 | IE, NE, NO | Reporting of “NE” detected |
| I.2.2. | 4.C.2. Land converted to grassland | Table4 | CH ₄ | 1990 | IE, NE, NO | Reporting of “NE” detected |
| I.2.3. | 4.B.2. Land converted to cropland | Table4 | CH ₄ | 2023 | IE, NE, NO | Reporting of “NE” detected |
| I.2.4. | 4.C.2. Land converted to grassland | Table4 | CH ₄ | 2023 | IE, NE, NO | Reporting of “NE” detected |
| I.2.5. | 5.F.1. Long-term storage of carbon in waste disposal sites | Table5 | CO ₂ | 1990 | NE | Reporting of “NE” detected |
| I.2.6. | 5.F.1. Long-term storage of carbon in waste disposal sites | Table5 | Total GHG emissions | 1990 | NE | Reporting of “NE” detected |
| I.2.7. | 5.F.2. Annual change in total carbon storage | Table5 | CO ₂ | 1990 | NE | Reporting of “NE” detected |
| I.2.8. | 5.F.2. Annual change in total carbon storage | Table5 | Total GHG emissions | 1990 | NE | Reporting of “NE” detected |
| I.2.9. | 5.F.1. Long-term storage of carbon in waste disposal sites | Table5 | CO ₂ | 2023 | NE | Reporting of “NE” detected |
| I.2.10. | 5.F.1. Long-term storage of carbon in waste disposal sites | Table5 | Total GHG emissions | 2023 | NE | Reporting of “NE” detected |
| I.2.11. | 5.F.2. Annual change in total carbon storage | Table5 | CO ₂ | 2023 | NE | Reporting of “NE” detected |
| I.2.12. | 5.F.2. Annual change in total carbon storage | Table5 | Total GHG emissions | 2023 | NE | Reporting of “NE” detected |
| I.2.13. | Unspecified mix of HFCs and PFCs | Table10s6 | – | 1990 | NO | Gas or sector not reported |
| I.2.14. | Unspecified mix of HFCs and PFCs | Table10s6 | – | 2023 | NO | Gas or sector not reported |
| I.2.15. | NF ₃ | Table10s6 | – | 1990 | IE, NA, NO | Gas or sector not reported |
| I.2.16. | NF ₃ | Table10s6 | – | 2023 | IE, NA, NO | Gas or sector not reported |
| I.2.17. | 6. Other | Table10s6 | – | 1990 | NO | Gas or sector not reported |
| I.2.18. | 6. Other | Table10s6 | – | 2023 | NO | Gas or sector not reported |

Table I.3
Changes in notation keys reported since the previous submission

| ID# | Category | CRT | Gas | Inventory | Notation key | Notation key |
|--------|--|-----------|---------------------|-----------|--------------------------------------|--|
| | | | | year | reported in latest submission (2025) | reported in previous submission (2024) |
| I.3.1. | 2.A.4. Other process uses of carbonates | Table2(I) | CH ₄ | 1990 | NO | IE |
| I.3.2. | 2.A.4. Other process uses of carbonates | Table2(I) | N ₂ O | 1990 | NO | IE |
| I.3.3. | 2.B.5. Carbide production | Table2(I) | CO ₂ | 1990 | NO | IE, NO |
| I.3.4. | 2.E.2. Thin-film-transistor flat panel display | Table2(I) | NF ₃ | 1990 | – | IE |
| I.3.5. | 2.E.2. Thin-film-transistor flat panel display | Table2(I) | Total GHG emissions | 1990 | NA, NO | IE |
| I.3.6. | 2.G.1. Electrical equipment | Table2(I) | Total GHG emissions | 1990 | IE, NA, NO | IE, NA |

| ID# | Category | CRT | Gas | Inventory year | Notation key reported in latest | Notation key reported in previous |
|---------|--|------------|---------------------|-------------------|------------------------------------|--------------------------------------|
| | | | | | submission (2025) | submission (2024) |
| I.3.7. | 2.A.4. Other process uses of carbonates | Table2(I) | CH ₄ | 2022 | NO | IE |
| I.3.8. | 2.A.4. Other process uses of carbonates | Table2(I) | N ₂ O | 2022 | NO | IE |
| I.3.9. | 2.B.5. Carbide production | Table2(I) | CO ₂ | 2022 | NO | IE, NO |
| I.3.10. | 2.C.3. Aluminium production | Table2(I) | CO ₂ | 2022 | NO | 15.14 |
| I.3.11. | 2.C.3. Aluminium production | Table2(I) | Total GHG emissions | 2022 | NO | 15.14 |
| I.3.12. | 2.E.2. Thin-film-transistor flat panel display | Table2(I) | NF ₃ | 2022 | – | IE |
| I.3.13. | 2.E.2. Thin-film-transistor flat panel display | Table2(I) | Total GHG emissions | 2022 | NA, NO | IE |
| I.3.14. | 2.G.1. Electrical equipment | Table2(I) | Total GHG emissions | 2022 | IE, NA, NO | IE, NA |
| I.3.15. | 2.E.2. Thin-film-transistor flat panel display | Table2(II) | NF ₃ | 1990 | – | IE |
| I.3.16. | 2.E.2. Thin-film-transistor flat panel display | Table2(II) | NF ₃ | 2022 | – | IE |
| I.3.17. | 4.A.2. Land converted to forest land | Table4 | CH ₄ | 1990 | IE, NO | IE |
| I.3.18. | 4.B.1. Cropland remaining cropland | Table4 | N ₂ O | 1990 | IE, NO | IE |
| I.3.19. | 4.B.2. Land converted to cropland | Table4 | CH ₄ | 1990 | IE, NE, NO | IE |
| I.3.20. | 4.C.2. Land converted to grassland | Table4 | CH ₄ | 1990 | IE, NE, NO | IE |
| I.3.21. | 4.A.2. Land converted to forest land | Table4 | CH ₄ | 2022 | IE, NO | IE |
| I.3.22. | 4.B.1. Cropland remaining cropland | Table4 | N ₂ O | 2022 | IE, NO | IE |
| I.3.23. | 4.B.2. Land converted to cropland | Table4 | CH ₄ | 2022 | IE, NE, NO | IE |
| I.3.24. | 4.C.2. Land converted to grassland | Table4 | CH ₄ | 2022 | IE, NE, NO | IE |

Table I.4

Differences between the sectoral and reference approaches for the latest reported year

| ID# | CRT table | Fuel type | Description | Difference between reference and sectoral approaches (%) |
|--------|-------------|--|---------------------------|--|
| | | | | |
| I.4.1. | Table1.A(c) | Liquid fuels (excluding international bunkers) | Energy consumption | 23.7 |
| I.4.2. | Table1.A(c) | Liquid fuels (excluding international bunkers) | CO ₂ emissions | 21.8 |

Table I.5

Findings on time-series consistency

| ID# | Category | CRT | Gas | Year 1 | Year 2 | Value 1 | Value 2 | Difference | Unit | Difference (CO ₂ eq) | Difference (%) | Z-score |
|--------|------------------------------|--------|-----------------|--------|--------|-----------|-----------|------------|------|------------------------------------|-------------------|---------|
| | | | | | | | | | | | | |
| I.5.1. | 1.A.1.b. Petroleum refining | Table1 | CO ₂ | 2001 | 2002 | 12 695.96 | 10 743.76 | –1 952.20 | kt | –1 952.20 | –15.4 | –3.1 |
| I.5.2. | 1.A.2.g. Other | Table1 | CO ₂ | 1990 | 1991 | 4 296.84 | 4 761.91 | 465.07 | kt | 465.07 | 10.8 | 3.0 |
| I.5.3. | 1.A.3.b. Road transportation | Table1 | CO ₂ | 2019 | 2020 | 28 467.84 | 24 240.91 | –4 226.92 | kt | –4 226.92 | –14.8 | –3.7 |
| I.5.4. | 1.A.3.d. Domestic navigation | Table1 | CO ₂ | 2019 | 2020 | 943.09 | 730.54 | –212.55 | kt | –212.55 | –22.5 | –3.1 |

| <i>ID#</i> | <i>Category</i> | <i>CRT</i> | <i>Gas</i> | <i>Year 1</i> | <i>Year 2</i> | <i>Value 1</i> | <i>Value 2</i> | <i>Difference</i> | <i>Unit</i> | <i>Difference (CO₂ eq)</i> | <i>Difference (%)</i> | <i>Z-score</i> |
|------------|---|------------|--|---------------|---------------|----------------|----------------|-------------------|-----------------------|---|---------------------------|----------------|
| I.5.5. | 1.A.4.c. Agriculture/forestry/fishing | Table1 | CO ₂ | 2021 | 2022 | 9 090.54 | 6 835.82 | -2 254.72 | kt | -2 254.72 | -24.8 | -3.0 |
| I.5.6. | 1.A.4.c. Agriculture/forestry/fishing | Table1 | CH ₄ | 2021 | 2022 | 48.13 | 34.63 | -13.50 | kt | -378.07 | -28.1 | -3.2 |
| I.5.7. | 1.B.2.a. Oil | Table1 | CO ₂ | 2001 | 2002 | 0.02 | 943.02 | 943.00 | kt | 943.00 | 4 291 | 4.9 |
| | | | | | | | | | | 835.4 | | |
| I.5.8. | 1.B.2.c. Venting and flaring | Table1 | CO ₂ | 1997 | 1998 | 494.23 | 309.50 | -184.73 | kt | -184.73 | -37.4 | -3.2 |
| I.5.9. | 1.B.2.c. Venting and flaring | Table1 | CH ₄ | 1996 | 1997 | 54.28 | 30.53 | -23.76 | kt | -665.15 | -43.8 | -4.9 |
| I.5.10. | 1.D.1.a. Aviation | Table1 | CO ₂ | 2019 | 2020 | 11 889.77 | 6 631.40 | -5 258.37 | kt | -5 258.37 | -44.2 | -4.9 |
| I.5.11. | 1.D.1.b. Navigation | Table1 | CH ₄ | 2022 | 2023 | 5.37 | 8.45 | 3.08 | kt | 86.20 | 57.3 | 4.3 |
| I.5.12. | 2.A.1. Cement production | Table2(I) | CO ₂ | 2018 | 2019 | 220.41 | 6.34 | -214.08 | kt | -214.08 | -97.1 | -3.3 |
| I.5.13. | 2.B.2. Nitric acid production | Table2(I) | N ₂ O | 2007 | 2008 | 13.89 | 1.80 | -12.09 | kt | -3 203.27 | -87.0 | -5.0 |
| I.5.14. | 2.B.8. Petrochemical and carbon black production | Table2(I) | CO ₂ | 2018 | 2019 | 458.32 | 553.99 | 95.67 | kt | 95.67 | 20.9 | 3.8 |
| I.5.15. | 2.B.9. Fluorochemical production | Table2(I) | HFCs | 1998 | 1999 | 8 773.97 | 4 043.09 | -4 730.89 | kt CO ₂ eq | -4 730.89 | -53.9 | -4.3 |
| I.5.16. | 2.B.10. Other | Table2(I) | CO ₂ | 1992 | 1993 | 10 339.13 | 5 845.58 | -4 493.55 | kt | -4 493.55 | -43.5 | -4.0 |
| I.5.17. | 2.C.3. Aluminium production | Table2(I) | CO ₂ | 2011 | 2012 | 446.74 | 164.30 | -282.44 | kt | -282.44 | -63.2 | -3.3 |
| I.5.18. | 2.C.3. Aluminium production | Table2(I) | PFCs | 2002 | 2003 | 2 206.60 | 466.27 | -1 740.33 | kt CO ₂ eq | -1 740.33 | -78.9 | -4.4 |
| I.5.19. | 2.F.1. Refrigeration and air conditioning | Table2(I) | HFCs | 2017 | 2018 | 1 296.43 | 864.86 | -431.57 | kt CO ₂ eq | -431.57 | -33.3 | -3.3 |
| I.5.20. | 2.B.9. Fluorochemical production | Table2(II) | HFC-23 | 1998 | 1999 | 665.86 | 294.02 | -371.84 | t | -4 610.82 | -55.8 | -4.4 |
| I.5.21. | 2.B.9. Fluorochemical production | Table2(II) | HFC-125 | 2002 | 2003 | 35.98 | 1.41 | -34.57 | t | -109.58 | -96.1 | -3.1 |
| I.5.22. | 2.B.9. Fluorochemical production | Table2(II) | HFC-134a | 1997 | 1998 | 85.00 | 14.00 | -71.00 | t | -92.30 | -83.5 | -3.7 |
| I.5.23. | 2.B.9. Fluorochemical production | Table2(II) | HFC-143a | 2000 | 2001 | 49.96 | 4.52 | -45.44 | t | -218.10 | -90.9 | -3.9 |
| I.5.24. | 2.B.9. Fluorochemical production | Table2(II) | Unspecified mix of HFCs | 1996 | 1997 | 50.40 | 554.88 | 504.48 | kt CO ₂ eq | 504.48 | 1 000.9 | 4.5 |
| I.5.25. | 2.B.9.a. By-product emissions | Table2(II) | HFC-23 | 1998 | 1999 | 665.86 | 294.02 | -371.84 | t | -4 610.82 | -55.8 | -4.4 |
| I.5.26. | 2.B.9.b. Fugitive emissions | Table2(II) | HFC-125 | 2002 | 2003 | 35.98 | 1.41 | -34.57 | t | -109.58 | -96.1 | -3.1 |
| I.5.27. | 2.B.9.b. Fugitive emissions | Table2(II) | HFC-134a | 1997 | 1998 | 85.00 | 14.00 | -71.00 | t | -92.30 | -83.5 | -3.7 |
| I.5.28. | 2.B.9.b. Fugitive emissions | Table2(II) | HFC-143a | 2000 | 2001 | 49.96 | 4.52 | -45.44 | t | -218.10 | -90.9 | -3.9 |
| I.5.29. | 2.B.9.b. Fugitive emissions | Table2(II) | Unspecified mix of HFCs | 1996 | 1997 | 50.40 | 554.88 | 504.48 | kt CO ₂ eq | 504.48 | 1 000.9 | 4.5 |
| I.5.30. | 2.C.3. Aluminium production | Table2(II) | CF ₄ | 2002 | 2003 | 235.98 | 52.64 | -183.33 | t | -1 215.50 | -77.7 | -4.3 |
| I.5.31. | 2.C.3. Aluminium production | Table2(II) | C ₂ F ₆ | 2002 | 2003 | 57.84 | 10.56 | -47.28 | t | -524.83 | -81.7 | -4.7 |
| I.5.32. | 2.F.1. Refrigeration and air conditioning | Table2(II) | HFC-143a | 2017 | 2018 | 109.63 | 34.83 | -74.80 | t | -359.03 | -68.2 | -3.9 |
| I.5.33. | 3.A.3. Swine | Table3 | CH ₄ | 1997 | 1998 | 22.78 | 20.17 | -2.61 | kt | -73.21 | -11.5 | -3.1 |
| I.5.34. | 3.B.3. Swine | Table3 | CH ₄ | 1996 | 1997 | 124.32 | 110.44 | -13.88 | kt | -388.78 | -11.2 | -3.0 |
| I.5.35. | 3.B.4. Other livestock | Table3 | CH ₄ | 1997 | 1998 | 14.79 | 9.81 | -4.98 | kt | -139.47 | -33.7 | -3.5 |
| I.5.36. | 3.D.1.b. Organic N fertilizers | Table3 | N ₂ O | 1991 | 1992 | 2.99 | 4.77 | 1.78 | kt | 472.69 | 59.7 | 4.5 |
| I.5.37. | 3.D.2. Indirect N ₂ O emissions from managed soils | Table3 | N ₂ O | 1991 | 1992 | 5.60 | 4.58 | -1.02 | kt | -269.51 | -18.2 | -4.1 |
| I.5.38. | 4.A.1. Forest land remaining forest land | Table4 | Net CO ₂ emissions/removals | 2013 | 2014 | -2 058.67 | -1 644.92 | 413.75 | kt CO ₂ eq | 413.75 | -20.1 | 4.3 |

| <i>ID#</i> | <i>Category</i> | <i>CRT</i> | <i>Gas</i> | <i>Year 1</i> | <i>Year 2</i> | <i>Value 1</i> | <i>Value 2</i> | <i>Difference</i> | <i>Unit</i> | <i>Difference (CO₂ eq)</i> | <i>Difference (%)</i> | <i>Z-score</i> |
|------------|--------------------------------------|------------|---|---------------|---------------|----------------|----------------|-------------------|-----------------------|---|---------------------------|----------------|
| I.5.39. | 4.A.2. Land converted to forest land | Table4 | Net CO ₂ emissions/removals | 2013 | 2014 | –880.08 | –787.06 | 93.02 | kt CO ₂ eq | 93.02 | –10.6 | 4.2 |
| I.5.40. | 4.B.2. Land converted to cropland | Table4 | Net CO ₂ emissions/removals | 2008 | 2009 | 1 459.81 | 1 643.53 | 183.72 | kt CO ₂ eq | 183.72 | 12.6 | 3.3 |
| I.5.41. | 4.C.2. Land converted to grassland | Table4 | Net CO ₂ emissions/removals | 2003 | 2004 | –475.57 | –706.45 | –230.88 | kt CO ₂ eq | –230.88 | 48.5 | –3.0 |
| I.5.42. | 4.C.2. Land converted to grassland | Table4 | Net CO ₂ emissions/removals | 2016 | 2017 | –330.74 | –631.86 | –301.13 | kt CO ₂ eq | –301.13 | 91.0 | –3.9 |
| I.5.43. | 4.D.2. Land converted to wetlands | Table4 | Net CO ₂ emissions/removals | 2016 | 2017 | 66.25 | –5.86 | –72.11 | kt CO ₂ eq | –72.11 | –108.8 | –5.1 |
| I.5.44. | 4.E.2. Land converted to settlements | Table4 | Net CO ₂ emissions/removals | 2016 | 2017 | 1 125.50 | 769.74 | –355.76 | kt CO ₂ eq | –355.76 | –31.6 | –5.3 |
| I.5.45. | 5.A.1. Managed waste disposal sites | Table5 | CH ₄ | 2004 | 2005 | 293.32 | 233.28 | –60.03 | kt | –1 680.89 | –20.5 | –4.1 |
| I.5.46. | 5.D.1. Domestic wastewater | Table5 | CH ₄ | 1990 | 1991 | 5.84 | 10.28 | 4.44 | kt | 124.41 | 76.1 | 3.8 |
| I.5.47. | 5.D.1. Domestic wastewater | Table5 | CH ₄ | 1993 | 1994 | 10.70 | 6.19 | –4.50 | kt | –126.08 | –42.1 | –3.8 |

Table I.6
Comparison between implied emission factors reported for key categories and the range of implied emission factors from the 2025 national inventory reports of developed country Parties

| <i>ID#</i> | <i>Category</i> | <i>CRT</i> | <i>Gas</i> | <i>Unit</i> | <i>IEF reported</i> | <i>Comparison</i> |
|------------|--|---------------|------------------|-------------------------------|---------------------|-------------------|
| I.6.1. | 1.A.2. Manufacturing industries and construction – solid fuels | Table1.A(a)s2 | CO ₂ | t/TJ | 55.815 | Below range |
| I.6.2. | 1.A.4. Other sectors – gaseous fuels | Table1.A(a)s4 | CH ₄ | kg/TJ | 117.689 | Above range |
| I.6.3. | 2.D.2. Paraffin wax use | Table2(I).A-H | CO ₂ | t/t | 3.130 | Above range |
| I.6.4. | 3.B.4.d. Goats | Table3.B(b) | N ₂ O | kg N ₂ O/head/year | 0.215 | Above range |
| I.6.5. | 3.D.1.c. Urine and dung deposited by grazing animals | Table3.D | N ₂ O | kg N ₂ O-N/kg N | 0.031 | Above range |

Table I.7
Identification of new key categories

| <i>ID#</i> | <i>New key category</i> | <i>Gas</i> | <i>Criteria</i> | <i>Inventory year</i> |
|------------|------------------------------------|------------------|-----------------|---------------------------|
| I.7.1. | 1.A.3.b. Road transportation | N ₂ O | Trend | 2023 |
| I.7.2. | 2.B.1. Ammonia production | CO ₂ | Trend | 2023 |
| I.7.3. | 3.B. Manure management | N ₂ O | Level | 2023 |
| I.7.4. | 4.C.2. Land converted to grassland | CO ₂ | Level | 2023 |

| | | <i>Inventory</i> | | |
|------------|---|------------------|-----------------|-------------|
| <i>ID#</i> | <i>New key category</i> | <i>Gas</i> | <i>Criteria</i> | <i>year</i> |
| I.7.5. | 4(II). Emissions and removals from drainage and rewetting and other management of organic and mineral soils | CH ₄ | Level | 2023 |