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Report on the simplified review of the national inventory report of the Russian Federation submitted in 2025

Summary

This report presents the results of the simplified review of the 2025 national inventory report of the Russian Federation, 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.

Abbreviations and acronyms

AD	activity data
C_2F_6	hexafluoroethane
C_3F_8	octafluoropropane
C_4F_{10}	perfluorobutane
C_5F_{12}	perfluoropentane
C_6F_{14}	perfluorohexane
$C_{10}F_{18}$	perfluorodecalin
c-C_3F_6	perfluorocyclopropane
CH_4	methane
CO_2	carbon dioxide
CO_2 eq	carbon dioxide equivalent
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_2O	nitrous oxide
NA	not applicable
NE	not estimated
NF_3	nitrogen trifluoride
NIR	national inventory report
NO	not occurring
PFC	perfluorocarbon
SF_6	sulfur hexafluoride

I. Introduction

1. This report covers the simplified review of the NIR of the Russian Federation 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 22 May 2025 a draft version of this report was transmitted to the Government of the Russian Federation, which provided comments on individual findings on 26 June 2025 that were addressed by the secretariat and incorporated, as appropriate, in this final version of the report.[3] In addition, the Russian Federation provided general comments on the report (see chap. II.B below).

3. The secretariat conducted the simplified review of the Russian Federation's NIR, 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 Russian Federation's NIR.[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, 19 April 2025	
	2024 submission: CRTs, 31 December 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 (**500.00 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

[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.

Area of review	*Description*	*Assessment*
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 are identified as values exceeding a z-score of 3, based on the statistical distribution of the full time series	See table I.5
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 CO_2 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.

> In many cases the lack of notation keys in the latest inventory submission is related to the incorrect data transfer after the software upgrade of the ETF reporting tool carried out by the UNFCCC secretariat.
>
> Interannual variations noticed in the findings were mainly related to variations of AD in the corresponding categories, which, in turn, were associated with changes in activity in the sectors of the national economy. This is especially true for the first half of the 1990s, a period of economic decline.
>
> The IEF outliers are associated either with differences in the levels of aggregation/disaggregation of categories with other Parties, making direct comparison of IEFs incorrect, or with the use by the Russian Federation of national emission factors that reflect the specifics of national conditions.
>
> The analyses of new key categories only partially coincides with the analyses by the Party due to the difference in the level of categories disaggregation.

[6] The comments provided by the Russian Federation are presented verbatim.

Annex

Findings of the initial assessment of the Russian Federation's 2025 national inventory report

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

ID#	*Category*	*CRT*	*Gas*	*Inventory year*	*Estimate in latest submission (2025)*	*Estimate in previous submission (2024)*	*Difference*	*Unit*	*Difference (%)*	*Difference (kt CO_2 eq)*
I.1.1.	1.B.2.c. Venting and flaring	Table1	CO_2	1990	29 401.38	27 665.03	1 736.36	kt	6.3	1 736.36
I.1.2.	1.A.2.g. Other	Table1	CO_2	2022	47 910.57	54 802.46	–6 891.89	kt	–12.6	–6 891.89
I.1.3.	1.A.3.c. Railways	Table1	CO_2	2022	9 607.61	7 678.61	1 929.01	kt	25.1	1 929.01
I.1.4.	1.A.3.e. Other transportation	Table1	CO_2	2022	27 053.46	43 318.56	–16 265.11	kt	–37.5	–16 265.11
I.1.5.	1.A.5.a. Stationary	Table1	CO_2	2022	39 266.89	15 357.39	23 909.51	kt	155.7	23 909.51
I.1.6.	1.A.5.a. Stationary	Table1	CH_4	2022	45.15	7.08	38.07	kt	537.4	1 065.96
I.1.7.	1.B.1.a. Coal mining and handling	Table1	CH_4	2022	1 589.06	2 736.51	–1 147.44	kt	–41.9	–32 128.39
I.1.8.	1.B.2.b. Natural gas	Table1	CH_4	2022	1 662.55	1 816.89	–154.34	kt	–8.5	–4 321.44
I.1.9.	1.B.2.c. Venting and flaring	Table1	CO_2	2022	58 750.88	57 025.73	1 725.15	kt	3.0	1 725.15
I.1.10.	2.B.10. Other	Table2(I)	CO_2	2022	8 337.18	10 392.28	–2 055.10	kt	–19.8	–2 055.10
I.1.11.	4.A.1. Forest land remaining forest land	Table4	Net CO_2 emissions/removals	1990	–748 740.43	–568 564.65	–180 175.78	kt CO_2 eq	–31.7	–180 175.78
I.1.12.	4.B.1. Cropland remaining cropland	Table4	Net CO_2 emissions/removals	1990	18 784.72	17 329.82	1 454.90	kt CO_2 eq	8.4	1 454.90
I.1.13.	4.B.1. Cropland remaining cropland	Table4	Net CO_2 emissions/removals	2022	19 361.54	18 149.74	1 211.80	kt CO_2 eq	6.7	1 211.80
I.1.14.	4.C.2. Land converted to grassland	Table4	Net CO_2 emissions/removals	2022	–98 872.61	–123 107.77	24 235.16	kt CO_2 eq	19.7	24 235.16
I.1.15.	4.D.1. Wetlands remaining wetlands	Table4	N_2O	2022	3.21	0.20	3.01	kt	1 510.4	797.84
I.1.16.	4.G. Harvested wood products	Table4	Net CO_2 emissions/removals	2022	–2 363.35	–4 692.83	2 329.47	kt CO_2 eq	49.6	2 329.47
I.1.17.	5.A.1. Managed waste disposal sites	Table5	CH_4	1990	1 108.45	910.65	197.81	kt	21.7	5 538.55
I.1.18.	5.D.1. Domestic wastewater	Table5	CH_4	1990	353.12	438.16	–85.03	kt	–19.4	–2 380.93
I.1.19.	5.F.1. Long-term storage of carbon in waste disposal sites	Table5	CO_2	1990	203 867.15	180 785.17	23 081.98	kt	12.8	23 081.98

ID#	Category	CRT	Gas	Inventory year	Estimate in latest submission (2025)	Estimate in previous submission (2024)	Difference	Unit	Difference (%)	Difference (kt CO_2 eq)
I.1.20.	5.F.2. Annual change in total carbon storage	Table5	CO_2	1990	10 948.34	9 389.16	1 559.18	kt	16.6	1 559.18
I.1.21.	5.A.1. Managed waste disposal sites	Table5	CH_4	2022	2 195.84	2 010.05	185.79	kt	9.2	5 202.12
I.1.22.	5.A.3. Uncategorized waste disposal sites	Table5	CH_4	2022	214.02	192.49	21.54	kt	11.2	602.99
I.1.23.	5.D.1. Domestic wastewater	Table5	CH_4	2022	256.26	383.77	–127.51	kt	–33.2	–3 570.30
I.1.24.	5.F.1. Long-term storage of carbon in waste disposal sites	Table5	CO_2	2022	638 721.46	581 571.61	57 149.85	kt	9.8	57 149.85

Table I.2
Findings on completeness

ID#	Sector, category or gas	CRT	Gas	Inventory year	Notation key	Finding type
I.2.1.	1.B.1.a. Coal mining and handling	Table1	CO_2	1990	NA, NE, NO	Reporting of “NE” detected
I.2.2.	1.B.1.b. Fuel transformation	Table1	CO_2	1990	NE	Reporting of “NE” detected
I.2.3.	1.B.1.b. Fuel transformation	Table1	CH_4	1990	NE	Reporting of “NE” detected
I.2.4.	1.B.1.b. Fuel transformation	Table1	N_2O	1990	NE	Reporting of “NE” detected
I.2.5.	1.B.1.b. Fuel transformation	Table1	Total GHG emissions	1990	NE	Reporting of “NE” detected
I.2.6.	1.B.1.a. Coal mining and handling	Table1	CO_2	2023	NA, NE, NO	Reporting of “NE” detected
I.2.7.	1.B.1.b. Fuel transformation	Table1	CO_2	2023	NE	Reporting of “NE” detected
I.2.8.	1.B.1.b. Fuel transformation	Table1	CH_4	2023	NE	Reporting of “NE” detected
I.2.9.	1.B.1.b. Fuel transformation	Table1	N_2O	2023	NE	Reporting of “NE” detected
I.2.10.	1.B.1.b. Fuel transformation	Table1	Total GHG emissions	2023	NE	Reporting of “NE” detected
I.2.11.	2.B.1. Ammonia production	Table2(I)	CH_4	1990	NE	Reporting of “NE” detected
I.2.12.	2.B.1. Ammonia production	Table2(I)	N_2O	1990	NE	Reporting of “NE” detected
I.2.13.	2.B.4. Caprolactam, glyoxal and glyoxylic acid production	Table2(I)	CO_2	1990	NE, NO	Reporting of “NE” detected
I.2.14.	2.B.10. Other	Table2(I)	CH_4	1990	NE, NO	Reporting of “NE” detected
I.2.15.	2.D.1. Lubricant use	Table2(I)	CH_4	1990	NE	Reporting of “NE” detected
I.2.16.	2.D.1. Lubricant use	Table2(I)	N_2O	1990	NE	Reporting of “NE” detected
I.2.17.	2.D.2. Paraffin wax use	Table2(I)	CH_4	1990	NE	Reporting of “NE” detected
I.2.18.	2.D.2. Paraffin wax use	Table2(I)	N_2O	1990	NE	Reporting of “NE” detected
I.2.19.	2.D.3. Other	Table2(I)	CO_2	1990	NE, NO	Reporting of “NE” detected
I.2.20.	2.D.3. Other	Table2(I)	CH_4	1990	NE, NO	Reporting of “NE” detected
I.2.21.	2.D.3. Other	Table2(I)	N_2O	1990	NE, NO	Reporting of “NE” detected
I.2.22.	2.D.3. Other	Table2(I)	Total GHG emissions	1990	NE, NO	Reporting of “NE” detected

ID#	Sector, category or gas	CRT	Gas	Inventory year	Notation key	Finding type
I.2.23.	2.E.1. Integrated circuit or semiconductor	Table2(I)	N_2O	1990	NE	Reporting of "NE" detected
I.2.24.	2.F.5. Solvents	Table2(I)	HFCs	1990	NE	Reporting of "NE" detected
I.2.25.	2.F.5. Solvents	Table2(I)	Total GHG emissions	1990	NE	Reporting of "NE" detected
I.2.26.	2.H. Other	Table2(I)	CO_2	1990	NE	Reporting of "NE" detected
I.2.27.	2.H. Other	Table2(I)	CH_4	1990	NE	Reporting of "NE" detected
I.2.28.	2.H. Other	Table2(I)	N_2O	1990	NE	Reporting of "NE" detected
I.2.29.	2.H. Other	Table2(I)	Total GHG emissions	1990	NE, NO	Reporting of "NE" detected
I.2.30.	2.B.1. Ammonia production	Table2(I)	CH_4	2023	NE	Reporting of "NE" detected
I.2.31.	2.B.1. Ammonia production	Table2(I)	N_2O	2023	NE	Reporting of "NE" detected
I.2.32.	2.B.4. Caprolactam, glyoxal and glyoxylic acid production	Table2(I)	CO_2	2023	NE, NO	Reporting of "NE" detected
I.2.33.	2.B.10. Other	Table2(I)	CH_4	2023	NE, NO	Reporting of "NE" detected
I.2.34.	2.D.1. Lubricant use	Table2(I)	CH_4	2023	NE	Reporting of "NE" detected
I.2.35.	2.D.1. Lubricant use	Table2(I)	N_2O	2023	NE	Reporting of "NE" detected
I.2.36.	2.D.2. Paraffin wax use	Table2(I)	CH_4	2023	NE	Reporting of "NE" detected
I.2.37.	2.D.2. Paraffin wax use	Table2(I)	N_2O	2023	NE	Reporting of "NE" detected
I.2.38.	2.D.3. Other	Table2(I)	CH_4	2023	NE, NO	Reporting of "NE" detected
I.2.39.	2.D.3. Other	Table2(I)	N_2O	2023	NE, NO	Reporting of "NE" detected
I.2.40.	2.E.1. Integrated circuit or semiconductor	Table2(I)	N_2O	2023	NE	Reporting of "NE" detected
I.2.41.	2.F.5. Solvents	Table2(I)	HFCs	2023	NE	Reporting of "NE" detected
I.2.42.	2.F.5. Solvents	Table2(I)	Total GHG emissions	2023	NE	Reporting of "NE" detected
I.2.43.	2.H. Other	Table2(I)	CO_2	2023	NE	Reporting of "NE" detected
I.2.44.	2.H. Other	Table2(I)	CH_4	2023	NE	Reporting of "NE" detected
I.2.45.	2.H. Other	Table2(I)	N_2O	2023	NE	Reporting of "NE" detected
I.2.46.	2.H. Other	Table2(I)	Total GHG emissions	2023	NE	Reporting of "NE" detected
I.2.47.	2.F.5. Solvents	Table2(II)	HFC-245fa	1990	NE	Reporting of "NE" detected
I.2.48.	2.F.5. Solvents	Table2(II)	HFC-245fa	2023	NE	Reporting of "NE" detected
I.2.49.	5.C.2. Open burning of waste	Table5	CO_2	1990	NE, NO	Reporting of "NE" detected
I.2.50.	5.C.2. Open burning of waste	Table5	CH_4	1990	NE, NO	Reporting of "NE" detected
I.2.51.	5.C.2. Open burning of waste	Table5	N_2O	1990	NE, NO	Reporting of "NE" detected
I.2.52.	5.C.2. Open burning of waste	Table5	Total GHG emissions	1990	NE, NO	Reporting of "NE" detected
I.2.53.	5.D.2. Industrial wastewater	Table5	N_2O	1990	NA, NE	Reporting of "NE" detected
I.2.54.	5.C.2. Open burning of waste	Table5	CO_2	2023	NE, NO	Reporting of "NE" detected
I.2.55.	5.C.2. Open burning of waste	Table5	CH_4	2023	NE, NO	Reporting of "NE" detected
I.2.56.	5.C.2. Open burning of waste	Table5	N_2O	2023	NE, NO	Reporting of "NE" detected
I.2.57.	5.C.2. Open burning of waste	Table5	Total GHG emissions	2023	NE, NO	Reporting of "NE" detected
I.2.58.	5.D.2. Industrial wastewater	Table5	N_2O	2023	NA, NE	Reporting of "NE" detected

ID#	Sector, category or gas	CRT	Gas	Inventory year	Notation key	Finding type
I.2.59.	Unspecified mix of HFCs and PFCs	Table10s6	–	1990	NA, NO	Gas or sector not reported
I.2.60.	Unspecified mix of HFCs and PFCs	Table10s6	–	2023	NA, NO	Gas or sector not reported
I.2.61.	NF_3	Table10s6	–	1990	NA, NO	Gas or sector not reported
I.2.62.	6. Other	Table10s6	–	1990	NA	Gas or sector not reported
I.2.63.	6. Other	Table10s6	–	2023	NA	Gas or sector not reported

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

ID#	Category	CRT	Gas	Inventory year	Notation key reported in latest submission (2025)	Notation key reported in previous submission (2024)
I.3.1.	1.B.1.a. Coal mining and handling	Table1	CO_2	1990	NA, NE, NO	NE, NO
I.3.2.	1.B.2.d. Other	Table1	CO_2	1990	NA	0.10
I.3.3.	1.B.2.d. Other	Table1	CH_4	1990	NA	1.45
I.3.4.	1.B.2.d. Other	Table1	Total GHG emissions	1990	NA	40.80
I.3.5.	1.B.1.a. Coal mining and handling	Table1	CO_2	2022	NA, NE, NO	NE, NO
I.3.6.	1.B.2.d. Other	Table1	CO_2	2022	NA	0.39
I.3.7.	1.B.2.d. Other	Table1	CH_4	2022	NA	5.94
I.3.8.	1.B.2.d. Other	Table1	Total GHG emissions	2022	NA	166.81
I.3.9.	2.C.4. Magnesium production	Table2(I)	HFCs	1990	–	NO
I.3.10.	2.C.4. Magnesium production	Table2(I)	PFCs	1990	–	NO
I.3.11.	2.C.4. Magnesium production	Table2(I)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.12.	2.E.1. Integrated circuit or semiconductor	Table2(I)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.13.	2.E.2. Thin-film-transistor flat panel display	Table2(I)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.14.	2.E.2. Thin-film-transistor flat panel display	Table2(I)	Total GHG emissions	1990	IE, NA, NO	IE, NO
I.3.15.	2.E.3. Photovoltaics	Table2(I)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.16.	2.E.4. Heat transfer fluid	Table2(I)	HFCs	1990	–	NO
I.3.17.	2.E.4. Heat transfer fluid	Table2(I)	PFCs	1990	–	NO
I.3.18.	2.E.4. Heat transfer fluid	Table2(I)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.19.	2.E.4. Heat transfer fluid	Table2(I)	Total GHG emissions	1990	–	NO
I.3.20.	2.F.1. Refrigeration and air conditioning	Table2(I)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.21.	2.F.2. Foam blowing agents	Table2(I)	PFCs	1990	–	NO
I.3.22.	2.F.2. Foam blowing agents	Table2(I)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.23.	2.F.3. Fire protection	Table2(I)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.24.	2.F.5. Solvents	Table2(I)	HFCs	1990	NE	NE, NO
I.3.25.	2.F.5. Solvents	Table2(I)	PFCs	1990	–	NO

ID#	Category	CRT	Gas	Inventory year	Notation key reported in latest submission (2025)	Notation key reported in previous submission (2024)
I.3.26.	2.F.5. Solvents	Table2(I)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.27.	2.F.5. Solvents	Table2(I)	Total GHG emissions	1990	NE	NE, NO
I.3.28.	2.F.6. Other applications	Table2(I)	PFCs	1990	–	NO
I.3.29.	2.F.6. Other applications	Table2(I)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.30.	2.G.1. Electrical equipment	Table2(I)	HFCs	1990	–	NO
I.3.31.	2.G.1. Electrical equipment	Table2(I)	PFCs	1990	–	NO
I.3.32.	2.G.1. Electrical equipment	Table2(I)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.33.	2.C.4. Magnesium production	Table2(I)	HFCs	2022	–	NO
I.3.34.	2.C.4. Magnesium production	Table2(I)	PFCs	2022	–	NO
I.3.35.	2.C.4. Magnesium production	Table2(I)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.36.	2.E.1. Integrated circuit or semiconductor	Table2(I)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.37.	2.E.2. Thin-film-transistor flat panel display	Table2(I)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.38.	2.E.2. Thin-film-transistor flat panel display	Table2(I)	Total GHG emissions	2022	IE, NA, NO	IE, NO
I.3.39.	2.E.3. Photovoltaics	Table2(I)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.40.	2.E.4. Heat transfer fluid	Table2(I)	HFCs	2022	–	NO
I.3.41.	2.E.4. Heat transfer fluid	Table2(I)	PFCs	2022	–	NO
I.3.42.	2.E.4. Heat transfer fluid	Table2(I)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.43.	2.E.4. Heat transfer fluid	Table2(I)	Total GHG emissions	2022	–	NO
I.3.44.	2.F.1. Refrigeration and air conditioning	Table2(I)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.45.	2.F.2. Foam blowing agents	Table2(I)	PFCs	2022	–	NO
I.3.46.	2.F.2. Foam blowing agents	Table2(I)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.47.	2.F.3. Fire protection	Table2(I)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.48.	2.F.5. Solvents	Table2(I)	HFCs	2022	NE	NE, NO
I.3.49.	2.F.5. Solvents	Table2(I)	PFCs	2022	–	NO
I.3.50.	2.F.5. Solvents	Table2(I)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.51.	2.F.5. Solvents	Table2(I)	Total GHG emissions	2022	NE	NE, NO
I.3.52.	2.F.6. Other applications	Table2(I)	PFCs	2022	–	NO
I.3.53.	2.F.6. Other applications	Table2(I)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.54.	2.G.1. Electrical equipment	Table2(I)	HFCs	2022	–	NO
I.3.55.	2.G.1. Electrical equipment	Table2(I)	PFCs	2022	–	NO
I.3.56.	2.G.1. Electrical equipment	Table2(I)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.57.	2.C.3. Aluminium production	Table2(II)	C_3F_8	1990	–	NO
I.3.58.	2.C.3. Aluminium production	Table2(II)	C_4F_{10}	1990	–	NO
I.3.59.	2.C.3. Aluminium production	Table2(II)	C_5F_{12}	1990	–	NO
I.3.60.	2.C.3. Aluminium production	Table2(II)	C_6F_{14}	1990	–	NO
I.3.61.	2.C.3. Aluminium production	Table2(II)	$C_{10}F_{18}$	1990	–	NO

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I.3.62.	2.C.3. Aluminium production	Table2(II)	c-C_3F_6	1990	–	NO
I.3.63.	2.C.3. Aluminium production	Table2(II)	Unspecified mix of PFCs	1990	–	NO
I.3.64.	2.C.4. Magnesium production	Table2(II)	HFC-41	1990	–	NO
I.3.65.	2.C.4. Magnesium production	Table2(II)	HFC-43-10mee	1990	–	NO
I.3.66.	2.C.4. Magnesium production	Table2(II)	HFC-134	1990	–	NO
I.3.67.	2.C.4. Magnesium production	Table2(II)	HFC-143	1990	–	NO
I.3.68.	2.C.4. Magnesium production	Table2(II)	HFC-152	1990	–	NO
I.3.69.	2.C.4. Magnesium production	Table2(II)	HFC-161	1990	–	NO
I.3.70.	2.C.4. Magnesium production	Table2(II)	HFC-236cb	1990	–	NO
I.3.71.	2.C.4. Magnesium production	Table2(II)	HFC-236ea	1990	–	NO
I.3.72.	2.C.4. Magnesium production	Table2(II)	HFC-236fa	1990	–	NO
I.3.73.	2.C.4. Magnesium production	Table2(II)	HFC-245ca	1990	–	NO
I.3.74.	2.C.4. Magnesium production	Table2(II)	Unspecified mix of HFCs	1990	–	NO
I.3.75.	2.C.4. Magnesium production	Table2(II)	C_3F_8	1990	–	NO
I.3.76.	2.C.4. Magnesium production	Table2(II)	C_4F_{10}	1990	–	NO
I.3.77.	2.C.4. Magnesium production	Table2(II)	C_5F_{12}	1990	–	NO
I.3.78.	2.C.4. Magnesium production	Table2(II)	C_6F_{14}	1990	–	NO
I.3.79.	2.C.4. Magnesium production	Table2(II)	$C_{10}F_{18}$	1990	–	NO
I.3.80.	2.C.4. Magnesium production	Table2(II)	c-C_3F_6	1990	–	NO
I.3.81.	2.C.4. Magnesium production	Table2(II)	Unspecified mix of PFCs	1990	–	NO
I.3.82.	2.C.4. Magnesium production	Table2(II)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.83.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-41	1990	–	NO
I.3.84.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-43-10mee	1990	–	NO
I.3.85.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-134	1990	–	NO
I.3.86.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-143	1990	–	NO
I.3.87.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-152	1990	–	NO
I.3.88.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-161	1990	–	NO
I.3.89.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-236cb	1990	–	NO
I.3.90.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-236ea	1990	–	NO
I.3.91.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-236fa	1990	–	NO
I.3.92.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-245ca	1990	–	NO
I.3.93.	2.E.1. Integrated circuit or semiconductor	Table2(II)	Unspecified mix of HFCs	1990	–	NO
I.3.94.	2.E.1. Integrated circuit or semiconductor	Table2(II)	C_4F_{10}	1990	–	NO
I.3.95.	2.E.1. Integrated circuit or semiconductor	Table2(II)	C_5F_{12}	1990	–	NO
I.3.96.	2.E.1. Integrated circuit or semiconductor	Table2(II)	C_6F_{14}	1990	–	NO
I.3.97.	2.E.1. Integrated circuit or semiconductor	Table2(II)	$C_{10}F_{18}$	1990	–	NO

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I.3.98.	2.E.1. Integrated circuit or semiconductor	Table2(II)	c-C_3F_6	1990	–	NO
I.3.99.	2.E.1. Integrated circuit or semiconductor	Table2(II)	Unspecified mix of PFCs	1990	–	NO
I.3.100.	2.E.1. Integrated circuit or semiconductor	Table2(II)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.101.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-41	1990	–	NO
I.3.102.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-43-10mee	1990	–	NO
I.3.103.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-134	1990	–	NO
I.3.104.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-143	1990	–	NO
I.3.105.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-152	1990	–	NO
I.3.106.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-161	1990	–	NO
I.3.107.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-236cb	1990	–	NO
I.3.108.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-236ea	1990	–	NO
I.3.109.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-236fa	1990	–	NO
I.3.110.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-245ca	1990	–	NO
I.3.111.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	Unspecified mix of HFCs	1990	–	NO
I.3.112.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	C_2F_6	1990	NO	IE
I.3.113.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	C_5F_{12}	1990	–	NO
I.3.114.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	C_6F_{14}	1990	–	NO
I.3.115.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	$C_{10}F_{18}$	1990	–	NO
I.3.116.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	c-C_3F_6	1990	–	NO
I.3.117.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	Unspecified mix of PFCs	1990	–	NO
I.3.118.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.119.	2.E.3. Photovoltaics	Table2(II)	HFC-41	1990	–	NO
I.3.120.	2.E.3. Photovoltaics	Table2(II)	HFC-43-10mee	1990	–	NO
I.3.121.	2.E.3. Photovoltaics	Table2(II)	HFC-134	1990	–	NO
I.3.122.	2.E.3. Photovoltaics	Table2(II)	HFC-143	1990	–	NO
I.3.123.	2.E.3. Photovoltaics	Table2(II)	HFC-152	1990	–	NO
I.3.124.	2.E.3. Photovoltaics	Table2(II)	HFC-161	1990	–	NO
I.3.125.	2.E.3. Photovoltaics	Table2(II)	HFC-236cb	1990	–	NO
I.3.126.	2.E.3. Photovoltaics	Table2(II)	HFC-236ea	1990	–	NO
I.3.127.	2.E.3. Photovoltaics	Table2(II)	HFC-236fa	1990	–	NO
I.3.128.	2.E.3. Photovoltaics	Table2(II)	HFC-245ca	1990	–	NO
I.3.129.	2.E.3. Photovoltaics	Table2(II)	Unspecified mix of HFCs	1990	–	NO
I.3.130.	2.E.3. Photovoltaics	Table2(II)	C_5F_{12}	1990	–	NO
I.3.131.	2.E.3. Photovoltaics	Table2(II)	C_6F_{14}	1990	–	NO
I.3.132.	2.E.3. Photovoltaics	Table2(II)	$C_{10}F_{18}$	1990	–	NO
I.3.133.	2.E.3. Photovoltaics	Table2(II)	c-C_3F_6	1990	–	NO

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I.3.134.	2.E.3. Photovoltaics	Table2(II)	Unspecified mix of PFCs	1990	–	NO
I.3.135.	2.E.3. Photovoltaics	Table2(II)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.136.	2.E.4. Heat transfer fluid	Table2(II)	HFC-41	1990	–	NO
I.3.137.	2.E.4. Heat transfer fluid	Table2(II)	HFC-43-10mee	1990	–	NO
I.3.138.	2.E.4. Heat transfer fluid	Table2(II)	HFC-134	1990	–	NO
I.3.139.	2.E.4. Heat transfer fluid	Table2(II)	HFC-143	1990	–	NO
I.3.140.	2.E.4. Heat transfer fluid	Table2(II)	HFC-152	1990	–	NO
I.3.141.	2.E.4. Heat transfer fluid	Table2(II)	HFC-161	1990	–	NO
I.3.142.	2.E.4. Heat transfer fluid	Table2(II)	HFC-236cb	1990	–	NO
I.3.143.	2.E.4. Heat transfer fluid	Table2(II)	HFC-236ea	1990	–	NO
I.3.144.	2.E.4. Heat transfer fluid	Table2(II)	HFC-236fa	1990	–	NO
I.3.145.	2.E.4. Heat transfer fluid	Table2(II)	HFC-245ca	1990	–	NO
I.3.146.	2.E.4. Heat transfer fluid	Table2(II)	Unspecified mix of HFCs	1990	–	NO
I.3.147.	2.E.4. Heat transfer fluid	Table2(II)	C_3F_8	1990	–	NO
I.3.148.	2.E.4. Heat transfer fluid	Table2(II)	C_4F_{10}	1990	–	NO
I.3.149.	2.E.4. Heat transfer fluid	Table2(II)	C_5F_{12}	1990	–	NO
I.3.150.	2.E.4. Heat transfer fluid	Table2(II)	C_6F_{14}	1990	–	NO
I.3.151.	2.E.4. Heat transfer fluid	Table2(II)	$C_{10}F_{18}$	1990	–	NO
I.3.152.	2.E.4. Heat transfer fluid	Table2(II)	c-C_3F_6	1990	–	NO
I.3.153.	2.E.4. Heat transfer fluid	Table2(II)	Unspecified mix of PFCs	1990	–	NO
I.3.154.	2.E.4. Heat transfer fluid	Table2(II)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.155.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-41	1990	–	NO
I.3.156.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-43-10mee	1990	–	NO
I.3.157.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-134	1990	–	NO
I.3.158.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-143	1990	–	NO
I.3.159.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-152	1990	–	NO
I.3.160.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-161	1990	–	NO
I.3.161.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-236cb	1990	–	NO
I.3.162.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-236ea	1990	–	NO
I.3.163.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-236fa	1990	–	NO
I.3.164.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-245ca	1990	–	NO
I.3.165.	2.F.1. Refrigeration and air conditioning	Table2(II)	Unspecified mix of HFCs	1990	–	NO
I.3.166.	2.F.1. Refrigeration and air conditioning	Table2(II)	C_4F_{10}	1990	–	NO
I.3.167.	2.F.1. Refrigeration and air conditioning	Table2(II)	C_5F_{12}	1990	–	NO
I.3.168.	2.F.1. Refrigeration and air conditioning	Table2(II)	C_6F_{14}	1990	–	NO
I.3.169.	2.F.1. Refrigeration and air conditioning	Table2(II)	$C_{10}F_{18}$	1990	–	NO

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I.3.170.	2.F.1. Refrigeration and air conditioning	Table2(II)	c-C_3F_6	1990	–	NO
I.3.171.	2.F.1. Refrigeration and air conditioning	Table2(II)	Unspecified mix of PFCs	1990	–	NO
I.3.172.	2.F.1. Refrigeration and air conditioning	Table2(II)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.173.	2.F.2. Foam blowing agents	Table2(II)	HFC-41	1990	–	NO
I.3.174.	2.F.2. Foam blowing agents	Table2(II)	HFC-43-10mee	1990	–	NO
I.3.175.	2.F.2. Foam blowing agents	Table2(II)	HFC-134	1990	–	NO
I.3.176.	2.F.2. Foam blowing agents	Table2(II)	HFC-143	1990	–	NO
I.3.177.	2.F.2. Foam blowing agents	Table2(II)	HFC-152	1990	–	NO
I.3.178.	2.F.2. Foam blowing agents	Table2(II)	HFC-161	1990	–	NO
I.3.179.	2.F.2. Foam blowing agents	Table2(II)	HFC-236cb	1990	–	NO
I.3.180.	2.F.2. Foam blowing agents	Table2(II)	HFC-236ea	1990	–	NO
I.3.181.	2.F.2. Foam blowing agents	Table2(II)	HFC-236fa	1990	–	NO
I.3.182.	2.F.2. Foam blowing agents	Table2(II)	HFC-245ca	1990	–	NO
I.3.183.	2.F.2. Foam blowing agents	Table2(II)	Unspecified mix of HFCs	1990	–	NO
I.3.184.	2.F.2. Foam blowing agents	Table2(II)	C_3F_8	1990	–	NO
I.3.185.	2.F.2. Foam blowing agents	Table2(II)	C_4F_{10}	1990	–	NO
I.3.186.	2.F.2. Foam blowing agents	Table2(II)	C_5F_{12}	1990	–	NO
I.3.187.	2.F.2. Foam blowing agents	Table2(II)	C_6F_{14}	1990	–	NO
I.3.188.	2.F.2. Foam blowing agents	Table2(II)	$C_{10}F_{18}$	1990	–	NO
I.3.189.	2.F.2. Foam blowing agents	Table2(II)	c-C_3F_6	1990	–	NO
I.3.190.	2.F.2. Foam blowing agents	Table2(II)	Unspecified mix of PFCs	1990	–	NO
I.3.191.	2.F.2. Foam blowing agents	Table2(II)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.192.	2.F.3. Fire protection	Table2(II)	HFC-41	1990	–	NO
I.3.193.	2.F.3. Fire protection	Table2(II)	HFC-43-10mee	1990	–	NO
I.3.194.	2.F.3. Fire protection	Table2(II)	HFC-134	1990	–	NO
I.3.195.	2.F.3. Fire protection	Table2(II)	HFC-143	1990	–	NO
I.3.196.	2.F.3. Fire protection	Table2(II)	HFC-152	1990	–	NO
I.3.197.	2.F.3. Fire protection	Table2(II)	HFC-161	1990	–	NO
I.3.198.	2.F.3. Fire protection	Table2(II)	HFC-236cb	1990	–	NO
I.3.199.	2.F.3. Fire protection	Table2(II)	HFC-236ea	1990	–	NO
I.3.200.	2.F.3. Fire protection	Table2(II)	HFC-236fa	1990	–	NO
I.3.201.	2.F.3. Fire protection	Table2(II)	HFC-245ca	1990	–	NO
I.3.202.	2.F.3. Fire protection	Table2(II)	Unspecified mix of HFCs	1990	–	NO
I.3.203.	2.F.3. Fire protection	Table2(II)	C_3F_8	1990	–	NO
I.3.204.	2.F.3. Fire protection	Table2(II)	C_4F_{10}	1990	–	NO
I.3.205.	2.F.3. Fire protection	Table2(II)	C_5F_{12}	1990	–	NO

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I.3.206.	2.F.3. Fire protection	Table2(II)	C_6F_{14}	1990	–	NO
I.3.207.	2.F.3. Fire protection	Table2(II)	$C_{10}F_{18}$	1990	–	NO
I.3.208.	2.F.3. Fire protection	Table2(II)	c-C_3F_6	1990	–	NO
I.3.209.	2.F.3. Fire protection	Table2(II)	Unspecified mix of PFCs	1990	–	NO
I.3.210.	2.F.3. Fire protection	Table2(II)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.211.	2.F.5. Solvents	Table2(II)	HFC-41	1990	–	NO
I.3.212.	2.F.5. Solvents	Table2(II)	HFC-43-10mee	1990	–	NO
I.3.213.	2.F.5. Solvents	Table2(II)	HFC-134	1990	–	NO
I.3.214.	2.F.5. Solvents	Table2(II)	HFC-143	1990	–	NO
I.3.215.	2.F.5. Solvents	Table2(II)	HFC-152	1990	–	NO
I.3.216.	2.F.5. Solvents	Table2(II)	HFC-161	1990	–	NO
I.3.217.	2.F.5. Solvents	Table2(II)	HFC-236cb	1990	–	NO
I.3.218.	2.F.5. Solvents	Table2(II)	HFC-236ea	1990	–	NO
I.3.219.	2.F.5. Solvents	Table2(II)	HFC-236fa	1990	–	NO
I.3.220.	2.F.5. Solvents	Table2(II)	HFC-245ca	1990	–	NO
I.3.221.	2.F.5. Solvents	Table2(II)	Unspecified mix of HFCs	1990	–	NO
I.3.222.	2.F.5. Solvents	Table2(II)	C_3F_8	1990	–	NO
I.3.223.	2.F.5. Solvents	Table2(II)	C_4F_{10}	1990	–	NO
I.3.224.	2.F.5. Solvents	Table2(II)	C_5F_{12}	1990	–	NO
I.3.225.	2.F.5. Solvents	Table2(II)	C_6F_{14}	1990	–	NO
I.3.226.	2.F.5. Solvents	Table2(II)	$C_{10}F_{18}$	1990	–	NO
I.3.227.	2.F.5. Solvents	Table2(II)	c-C_3F_6	1990	–	NO
I.3.228.	2.F.5. Solvents	Table2(II)	Unspecified mix of PFCs	1990	–	NO
I.3.229.	2.F.5. Solvents	Table2(II)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.230.	2.F.6. Other applications	Table2(II)	HFC-41	1990	–	NO
I.3.231.	2.F.6. Other applications	Table2(II)	HFC-43-10mee	1990	–	NO
I.3.232.	2.F.6. Other applications	Table2(II)	HFC-134	1990	–	NO
I.3.233.	2.F.6. Other applications	Table2(II)	HFC-143	1990	–	NO
I.3.234.	2.F.6. Other applications	Table2(II)	HFC-152	1990	–	NO
I.3.235.	2.F.6. Other applications	Table2(II)	HFC-161	1990	–	NO
I.3.236.	2.F.6. Other applications	Table2(II)	HFC-236cb	1990	–	NO
I.3.237.	2.F.6. Other applications	Table2(II)	HFC-236ea	1990	–	NO
I.3.238.	2.F.6. Other applications	Table2(II)	HFC-236fa	1990	–	NO
I.3.239.	2.F.6. Other applications	Table2(II)	HFC-245ca	1990	–	NO
I.3.240.	2.F.6. Other applications	Table2(II)	Unspecified mix of HFCs	1990	–	NO
I.3.241.	2.F.6. Other applications	Table2(II)	C_3F_8	1990	–	NO

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I.3.242.	2.F.6. Other applications	Table2(II)	C_4F_{10}	1990	–	NO
I.3.243.	2.F.6. Other applications	Table2(II)	C_5F_{12}	1990	–	NO
I.3.244.	2.F.6. Other applications	Table2(II)	C_6F_{14}	1990	–	NO
I.3.245.	2.F.6. Other applications	Table2(II)	$C_{10}F_{18}$	1990	–	NO
I.3.246.	2.F.6. Other applications	Table2(II)	c-C_3F_6	1990	–	NO
I.3.247.	2.F.6. Other applications	Table2(II)	Unspecified mix of PFCs	1990	–	NO
I.3.248.	2.F.6. Other applications	Table2(II)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.249.	2.G.1. Electrical equipment	Table2(II)	HFC-41	1990	–	NO
I.3.250.	2.G.1. Electrical equipment	Table2(II)	HFC-43-10mee	1990	–	NO
I.3.251.	2.G.1. Electrical equipment	Table2(II)	HFC-134	1990	–	NO
I.3.252.	2.G.1. Electrical equipment	Table2(II)	HFC-143	1990	–	NO
I.3.253.	2.G.1. Electrical equipment	Table2(II)	HFC-152	1990	–	NO
I.3.254.	2.G.1. Electrical equipment	Table2(II)	HFC-161	1990	–	NO
I.3.255.	2.G.1. Electrical equipment	Table2(II)	HFC-236cb	1990	–	NO
I.3.256.	2.G.1. Electrical equipment	Table2(II)	HFC-236ea	1990	–	NO
I.3.257.	2.G.1. Electrical equipment	Table2(II)	HFC-236fa	1990	–	NO
I.3.258.	2.G.1. Electrical equipment	Table2(II)	HFC-245ca	1990	–	NO
I.3.259.	2.G.1. Electrical equipment	Table2(II)	Unspecified mix of HFCs	1990	–	NO
I.3.260.	2.G.1. Electrical equipment	Table2(II)	C_3F_8	1990	–	NO
I.3.261.	2.G.1. Electrical equipment	Table2(II)	C_4F_{10}	1990	–	NO
I.3.262.	2.G.1. Electrical equipment	Table2(II)	C_5F_{12}	1990	–	NO
I.3.263.	2.G.1. Electrical equipment	Table2(II)	C_6F_{14}	1990	–	NO
I.3.264.	2.G.1. Electrical equipment	Table2(II)	$C_{10}F_{18}$	1990	–	NO
I.3.265.	2.G.1. Electrical equipment	Table2(II)	c-C_3F_6	1990	–	NO
I.3.266.	2.G.1. Electrical equipment	Table2(II)	Unspecified mix of PFCs	1990	–	NO
I.3.267.	2.G.1. Electrical equipment	Table2(II)	Unspecified mix of HFCs and PFCs	1990	–	NO
I.3.268.	2.C.3. Aluminium production	Table2(II)	C_3F_8	2022	–	NO
I.3.269.	2.C.3. Aluminium production	Table2(II)	C_4F_{10}	2022	–	NO
I.3.270.	2.C.3. Aluminium production	Table2(II)	C_5F_{12}	2022	–	NO
I.3.271.	2.C.3. Aluminium production	Table2(II)	C_6F_{14}	2022	–	NO
I.3.272.	2.C.3. Aluminium production	Table2(II)	$C_{10}F_{18}$	2022	–	NO
I.3.273.	2.C.3. Aluminium production	Table2(II)	c-C_3F_6	2022	–	NO
I.3.274.	2.C.3. Aluminium production	Table2(II)	Unspecified mix of PFCs	2022	–	NO
I.3.275.	2.C.4. Magnesium production	Table2(II)	HFC-41	2022	–	NO
I.3.276.	2.C.4. Magnesium production	Table2(II)	HFC-43-10mee	2022	–	NO
I.3.277.	2.C.4. Magnesium production	Table2(II)	HFC-134	2022	–	NO

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I.3.278.	2.C.4. Magnesium production	Table2(II)	HFC-143	2022	–	NO
I.3.279.	2.C.4. Magnesium production	Table2(II)	HFC-152	2022	–	NO
I.3.280.	2.C.4. Magnesium production	Table2(II)	HFC-161	2022	–	NO
I.3.281.	2.C.4. Magnesium production	Table2(II)	HFC-236cb	2022	–	NO
I.3.282.	2.C.4. Magnesium production	Table2(II)	HFC-236ea	2022	–	NO
I.3.283.	2.C.4. Magnesium production	Table2(II)	HFC-236fa	2022	–	NO
I.3.284.	2.C.4. Magnesium production	Table2(II)	HFC-245ca	2022	–	NO
I.3.285.	2.C.4. Magnesium production	Table2(II)	Unspecified mix of HFCs	2022	–	NO
I.3.286.	2.C.4. Magnesium production	Table2(II)	C_3F_8	2022	–	NO
I.3.287.	2.C.4. Magnesium production	Table2(II)	C_4F_{10}	2022	–	NO
I.3.288.	2.C.4. Magnesium production	Table2(II)	C_5F_{12}	2022	–	NO
I.3.289.	2.C.4. Magnesium production	Table2(II)	C_6F_{14}	2022	–	NO
I.3.290.	2.C.4. Magnesium production	Table2(II)	$C_{10}F_{18}$	2022	–	NO
I.3.291.	2.C.4. Magnesium production	Table2(II)	c-C_3F_6	2022	–	NO
I.3.292.	2.C.4. Magnesium production	Table2(II)	Unspecified mix of PFCs	2022	–	NO
I.3.293.	2.C.4. Magnesium production	Table2(II)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.294.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-41	2022	–	NO
I.3.295.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-43-10mee	2022	–	NO
I.3.296.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-134	2022	–	NO
I.3.297.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-143	2022	–	NO
I.3.298.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-152	2022	–	NO
I.3.299.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-161	2022	–	NO
I.3.300.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-236cb	2022	–	NO
I.3.301.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-236ea	2022	–	NO
I.3.302.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-236fa	2022	–	NO
I.3.303.	2.E.1. Integrated circuit or semiconductor	Table2(II)	HFC-245ca	2022	–	NO
I.3.304.	2.E.1. Integrated circuit or semiconductor	Table2(II)	Unspecified mix of HFCs	2022	–	NO
I.3.305.	2.E.1. Integrated circuit or semiconductor	Table2(II)	C_4F_{10}	2022	–	NO
I.3.306.	2.E.1. Integrated circuit or semiconductor	Table2(II)	C_5F_{12}	2022	–	NO
I.3.307.	2.E.1. Integrated circuit or semiconductor	Table2(II)	C_6F_{14}	2022	–	NO
I.3.308.	2.E.1. Integrated circuit or semiconductor	Table2(II)	$C_{10}F_{18}$	2022	–	NO
I.3.309.	2.E.1. Integrated circuit or semiconductor	Table2(II)	c-C_3F_6	2022	–	NO
I.3.310.	2.E.1. Integrated circuit or semiconductor	Table2(II)	Unspecified mix of PFCs	2022	–	NO
I.3.311.	2.E.1. Integrated circuit or semiconductor	Table2(II)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.312.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-41	2022	–	NO
I.3.313.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-43-10mee	2022	–	NO

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I.3.314.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-134	2022	–	NO
I.3.315.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-143	2022	–	NO
I.3.316.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-152	2022	–	NO
I.3.317.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-161	2022	–	NO
I.3.318.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-236cb	2022	–	NO
I.3.319.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-236ea	2022	–	NO
I.3.320.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-236fa	2022	–	NO
I.3.321.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	HFC-245ca	2022	–	NO
I.3.322.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	Unspecified mix of HFCs	2022	–	NO
I.3.323.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	C_2F_6	2022	NO	IE
I.3.324.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	C_5F_{12}	2022	–	NO
I.3.325.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	C_6F_{14}	2022	–	NO
I.3.326.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	$C_{10}F_{18}$	2022	–	NO
I.3.327.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	c-C_3F_6	2022	–	NO
I.3.328.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	Unspecified mix of PFCs	2022	–	NO
I.3.329.	2.E.2. Thin-film-transistor flat panel display	Table2(II)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.330.	2.E.3. Photovoltaics	Table2(II)	HFC-41	2022	–	NO
I.3.331.	2.E.3. Photovoltaics	Table2(II)	HFC-43-10mee	2022	–	NO
I.3.332.	2.E.3. Photovoltaics	Table2(II)	HFC-134	2022	–	NO
I.3.333.	2.E.3. Photovoltaics	Table2(II)	HFC-143	2022	–	NO
I.3.334.	2.E.3. Photovoltaics	Table2(II)	HFC-152	2022	–	NO
I.3.335.	2.E.3. Photovoltaics	Table2(II)	HFC-161	2022	–	NO
I.3.336.	2.E.3. Photovoltaics	Table2(II)	HFC-236cb	2022	–	NO
I.3.337.	2.E.3. Photovoltaics	Table2(II)	HFC-236ea	2022	–	NO
I.3.338.	2.E.3. Photovoltaics	Table2(II)	HFC-236fa	2022	–	NO
I.3.339.	2.E.3. Photovoltaics	Table2(II)	HFC-245ca	2022	–	NO
I.3.340.	2.E.3. Photovoltaics	Table2(II)	Unspecified mix of HFCs	2022	–	NO
I.3.341.	2.E.3. Photovoltaics	Table2(II)	C_5F_{12}	2022	–	NO
I.3.342.	2.E.3. Photovoltaics	Table2(II)	C_6F_{14}	2022	–	NO
I.3.343.	2.E.3. Photovoltaics	Table2(II)	$C_{10}F_{18}$	2022	–	NO
I.3.344.	2.E.3. Photovoltaics	Table2(II)	c-C_3F_6	2022	–	NO
I.3.345.	2.E.3. Photovoltaics	Table2(II)	Unspecified mix of PFCs	2022	–	NO
I.3.346.	2.E.3. Photovoltaics	Table2(II)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.347.	2.E.4. Heat transfer fluid	Table2(II)	HFC-41	2022	–	NO
I.3.348.	2.E.4. Heat transfer fluid	Table2(II)	HFC-43-10mee	2022	–	NO
I.3.349.	2.E.4. Heat transfer fluid	Table2(II)	HFC-134	2022	–	NO

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I.3.350.	2.E.4. Heat transfer fluid	Table2(II)	HFC-143	2022	–	NO
I.3.351.	2.E.4. Heat transfer fluid	Table2(II)	HFC-152	2022	–	NO
I.3.352.	2.E.4. Heat transfer fluid	Table2(II)	HFC-161	2022	–	NO
I.3.353.	2.E.4. Heat transfer fluid	Table2(II)	HFC-236cb	2022	–	NO
I.3.354.	2.E.4. Heat transfer fluid	Table2(II)	HFC-236ea	2022	–	NO
I.3.355.	2.E.4. Heat transfer fluid	Table2(II)	HFC-236fa	2022	–	NO
I.3.356.	2.E.4. Heat transfer fluid	Table2(II)	HFC-245ca	2022	–	NO
I.3.357.	2.E.4. Heat transfer fluid	Table2(II)	Unspecified mix of HFCs	2022	–	NO
I.3.358.	2.E.4. Heat transfer fluid	Table2(II)	C_3F_8	2022	–	NO
I.3.359.	2.E.4. Heat transfer fluid	Table2(II)	C_4F_{10}	2022	–	NO
I.3.360.	2.E.4. Heat transfer fluid	Table2(II)	C_5F_{12}	2022	–	NO
I.3.361.	2.E.4. Heat transfer fluid	Table2(II)	C_6F_{14}	2022	–	NO
I.3.362.	2.E.4. Heat transfer fluid	Table2(II)	$C_{10}F_{18}$	2022	–	NO
I.3.363.	2.E.4. Heat transfer fluid	Table2(II)	c-C_3F_6	2022	–	NO
I.3.364.	2.E.4. Heat transfer fluid	Table2(II)	Unspecified mix of PFCs	2022	–	NO
I.3.365.	2.E.4. Heat transfer fluid	Table2(II)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.366.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-41	2022	–	NO
I.3.367.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-43-10mee	2022	–	NO
I.3.368.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-134	2022	–	NO
I.3.369.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-143	2022	–	NO
I.3.370.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-152	2022	–	NO
I.3.371.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-161	2022	–	NO
I.3.372.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-236cb	2022	–	NO
I.3.373.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-236ea	2022	–	NO
I.3.374.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-236fa	2022	–	NO
I.3.375.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-245ca	2022	–	NO
I.3.376.	2.F.1. Refrigeration and air conditioning	Table2(II)	Unspecified mix of HFCs	2022	–	NO
I.3.377.	2.F.1. Refrigeration and air conditioning	Table2(II)	C_4F_{10}	2022	–	NO
I.3.378.	2.F.1. Refrigeration and air conditioning	Table2(II)	C_5F_{12}	2022	–	NO
I.3.379.	2.F.1. Refrigeration and air conditioning	Table2(II)	C_6F_{14}	2022	–	NO
I.3.380.	2.F.1. Refrigeration and air conditioning	Table2(II)	$C_{10}F_{18}$	2022	–	NO
I.3.381.	2.F.1. Refrigeration and air conditioning	Table2(II)	c-C_3F_6	2022	–	NO
I.3.382.	2.F.1. Refrigeration and air conditioning	Table2(II)	Unspecified mix of PFCs	2022	–	NO
I.3.383.	2.F.1. Refrigeration and air conditioning	Table2(II)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.384.	2.F.2. Foam blowing agents	Table2(II)	HFC-41	2022	–	NO
I.3.385.	2.F.2. Foam blowing agents	Table2(II)	HFC-43-10mee	2022	–	NO

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I.3.386.	2.F.2. Foam blowing agents	Table2(II)	HFC-134	2022	–	NO
I.3.387.	2.F.2. Foam blowing agents	Table2(II)	HFC-143	2022	–	NO
I.3.388.	2.F.2. Foam blowing agents	Table2(II)	HFC-152	2022	–	NO
I.3.389.	2.F.2. Foam blowing agents	Table2(II)	HFC-161	2022	–	NO
I.3.390.	2.F.2. Foam blowing agents	Table2(II)	HFC-236cb	2022	–	NO
I.3.391.	2.F.2. Foam blowing agents	Table2(II)	HFC-236ea	2022	–	NO
I.3.392.	2.F.2. Foam blowing agents	Table2(II)	HFC-236fa	2022	–	NO
I.3.393.	2.F.2. Foam blowing agents	Table2(II)	HFC-245ca	2022	–	NO
I.3.394.	2.F.2. Foam blowing agents	Table2(II)	Unspecified mix of HFCs	2022	–	NO
I.3.395.	2.F.2. Foam blowing agents	Table2(II)	C_3F_8	2022	–	NO
I.3.396.	2.F.2. Foam blowing agents	Table2(II)	C_4F_{10}	2022	–	NO
I.3.397.	2.F.2. Foam blowing agents	Table2(II)	C_5F_{12}	2022	–	NO
I.3.398.	2.F.2. Foam blowing agents	Table2(II)	C_6F_{14}	2022	–	NO
I.3.399.	2.F.2. Foam blowing agents	Table2(II)	$C_{10}F_{18}$	2022	–	NO
I.3.400.	2.F.2. Foam blowing agents	Table2(II)	c-C_3F_6	2022	–	NO
I.3.401.	2.F.2. Foam blowing agents	Table2(II)	Unspecified mix of PFCs	2022	–	NO
I.3.402.	2.F.2. Foam blowing agents	Table2(II)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.403.	2.F.3. Fire protection	Table2(II)	HFC-41	2022	–	NO
I.3.404.	2.F.3. Fire protection	Table2(II)	HFC-43-10mee	2022	–	NO
I.3.405.	2.F.3. Fire protection	Table2(II)	HFC-134	2022	–	NO
I.3.406.	2.F.3. Fire protection	Table2(II)	HFC-143	2022	–	NO
I.3.407.	2.F.3. Fire protection	Table2(II)	HFC-152	2022	–	NO
I.3.408.	2.F.3. Fire protection	Table2(II)	HFC-161	2022	–	NO
I.3.409.	2.F.3. Fire protection	Table2(II)	HFC-236cb	2022	–	NO
I.3.410.	2.F.3. Fire protection	Table2(II)	HFC-236ea	2022	–	NO
I.3.411.	2.F.3. Fire protection	Table2(II)	HFC-236fa	2022	–	NO
I.3.412.	2.F.3. Fire protection	Table2(II)	HFC-245ca	2022	–	NO
I.3.413.	2.F.3. Fire protection	Table2(II)	Unspecified mix of HFCs	2022	–	NO
I.3.414.	2.F.3. Fire protection	Table2(II)	C_3F_8	2022	–	NO
I.3.415.	2.F.3. Fire protection	Table2(II)	C_4F_{10}	2022	–	NO
I.3.416.	2.F.3. Fire protection	Table2(II)	C_5F_{12}	2022	–	NO
I.3.417.	2.F.3. Fire protection	Table2(II)	C_6F_{14}	2022	–	NO
I.3.418.	2.F.3. Fire protection	Table2(II)	$C_{10}F_{18}$	2022	–	NO
I.3.419.	2.F.3. Fire protection	Table2(II)	c-C_3F_6	2022	–	NO
I.3.420.	2.F.3. Fire protection	Table2(II)	Unspecified mix of PFCs	2022	–	NO
I.3.421.	2.F.3. Fire protection	Table2(II)	Unspecified mix of HFCs and PFCs	2022	–	NO

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I.3.422.	2.F.5. Solvents	Table2(II)	HFC-41	2022	–	NO
I.3.423.	2.F.5. Solvents	Table2(II)	HFC-43-10mee	2022	–	NO
I.3.424.	2.F.5. Solvents	Table2(II)	HFC-134	2022	–	NO
I.3.425.	2.F.5. Solvents	Table2(II)	HFC-143	2022	–	NO
I.3.426.	2.F.5. Solvents	Table2(II)	HFC-152	2022	–	NO
I.3.427.	2.F.5. Solvents	Table2(II)	HFC-161	2022	–	NO
I.3.428.	2.F.5. Solvents	Table2(II)	HFC-236cb	2022	–	NO
I.3.429.	2.F.5. Solvents	Table2(II)	HFC-236ea	2022	–	NO
I.3.430.	2.F.5. Solvents	Table2(II)	HFC-236fa	2022	–	NO
I.3.431.	2.F.5. Solvents	Table2(II)	HFC-245ca	2022	–	NO
I.3.432.	2.F.5. Solvents	Table2(II)	Unspecified mix of HFCs	2022	–	NO
I.3.433.	2.F.5. Solvents	Table2(II)	C_3F_8	2022	–	NO
I.3.434.	2.F.5. Solvents	Table2(II)	C_4F_{10}	2022	–	NO
I.3.435.	2.F.5. Solvents	Table2(II)	C_5F_{12}	2022	–	NO
I.3.436.	2.F.5. Solvents	Table2(II)	C_6F_{14}	2022	–	NO
I.3.437.	2.F.5. Solvents	Table2(II)	$C_{10}F_{18}$	2022	–	NO
I.3.438.	2.F.5. Solvents	Table2(II)	c-C_3F_6	2022	–	NO
I.3.439.	2.F.5. Solvents	Table2(II)	Unspecified mix of PFCs	2022	–	NO
I.3.440.	2.F.5. Solvents	Table2(II)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.441.	2.F.6. Other applications	Table2(II)	HFC-41	2022	–	NO
I.3.442.	2.F.6. Other applications	Table2(II)	HFC-43-10mee	2022	–	NO
I.3.443.	2.F.6. Other applications	Table2(II)	HFC-134	2022	–	NO
I.3.444.	2.F.6. Other applications	Table2(II)	HFC-143	2022	–	NO
I.3.445.	2.F.6. Other applications	Table2(II)	HFC-152	2022	–	NO
I.3.446.	2.F.6. Other applications	Table2(II)	HFC-161	2022	–	NO
I.3.447.	2.F.6. Other applications	Table2(II)	HFC-236cb	2022	–	NO
I.3.448.	2.F.6. Other applications	Table2(II)	HFC-236ea	2022	–	NO
I.3.449.	2.F.6. Other applications	Table2(II)	HFC-236fa	2022	–	NO
I.3.450.	2.F.6. Other applications	Table2(II)	HFC-245ca	2022	–	NO
I.3.451.	2.F.6. Other applications	Table2(II)	Unspecified mix of HFCs	2022	–	NO
I.3.452.	2.F.6. Other applications	Table2(II)	C_3F_8	2022	–	NO
I.3.453.	2.F.6. Other applications	Table2(II)	C_4F_{10}	2022	–	NO
I.3.454.	2.F.6. Other applications	Table2(II)	C_5F_{12}	2022	–	NO
I.3.455.	2.F.6. Other applications	Table2(II)	C_6F_{14}	2022	–	NO
I.3.456.	2.F.6. Other applications	Table2(II)	$C_{10}F_{18}$	2022	–	NO
I.3.457.	2.F.6. Other applications	Table2(II)	c-C_3F_6	2022	–	NO

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I.3.458.	2.F.6. Other applications	Table2(II)	Unspecified mix of PFCs	2022	–	NO
I.3.459.	2.F.6. Other applications	Table2(II)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.460.	2.G.1. Electrical equipment	Table2(II)	HFC-41	2022	–	NO
I.3.461.	2.G.1. Electrical equipment	Table2(II)	HFC-43-10mee	2022	–	NO
I.3.462.	2.G.1. Electrical equipment	Table2(II)	HFC-134	2022	–	NO
I.3.463.	2.G.1. Electrical equipment	Table2(II)	HFC-143	2022	–	NO
I.3.464.	2.G.1. Electrical equipment	Table2(II)	HFC-152	2022	–	NO
I.3.465.	2.G.1. Electrical equipment	Table2(II)	HFC-161	2022	–	NO
I.3.466.	2.G.1. Electrical equipment	Table2(II)	HFC-236cb	2022	–	NO
I.3.467.	2.G.1. Electrical equipment	Table2(II)	HFC-236ea	2022	–	NO
I.3.468.	2.G.1. Electrical equipment	Table2(II)	HFC-236fa	2022	–	NO
I.3.469.	2.G.1. Electrical equipment	Table2(II)	HFC-245ca	2022	–	NO
I.3.470.	2.G.1. Electrical equipment	Table2(II)	Unspecified mix of HFCs	2022	–	NO
I.3.471.	2.G.1. Electrical equipment	Table2(II)	C_3F_8	2022	–	NO
I.3.472.	2.G.1. Electrical equipment	Table2(II)	C_4F_{10}	2022	–	NO
I.3.473.	2.G.1. Electrical equipment	Table2(II)	C_5F_{12}	2022	–	NO
I.3.474.	2.G.1. Electrical equipment	Table2(II)	C_6F_{14}	2022	–	NO
I.3.475.	2.G.1. Electrical equipment	Table2(II)	$C_{10}F_{18}$	2022	–	NO
I.3.476.	2.G.1. Electrical equipment	Table2(II)	c-C_3F_6	2022	–	NO
I.3.477.	2.G.1. Electrical equipment	Table2(II)	Unspecified mix of PFCs	2022	–	NO
I.3.478.	2.G.1. Electrical equipment	Table2(II)	Unspecified mix of HFCs and PFCs	2022	–	NO
I.3.479.	5.C.1. Waste incineration	Table5	CO_2	1990	IE, NO	IE
I.3.480.	5.C.1. Waste incineration	Table5	CH_4	1990	IE, NO	IE
I.3.481.	5.C.1. Waste incineration	Table5	N_2O	1990	IE, NO	IE
I.3.482.	5.C.1. Waste incineration	Table5	Total GHG emissions	1990	IE, NO	IE
I.3.483.	5.C.2. Open burning of waste	Table5	CO_2	1990	NE, NO	NE
I.3.484.	5.C.2. Open burning of waste	Table5	CH_4	1990	NE, NO	NE
I.3.485.	5.C.2. Open burning of waste	Table5	N_2O	1990	NE, NO	NE
I.3.486.	5.C.2. Open burning of waste	Table5	Total GHG emissions	1990	NE, NO	NE
I.3.487.	5.C.1. Waste incineration	Table5	CO_2	2022	IE, NO	IE
I.3.488.	5.C.1. Waste incineration	Table5	CH_4	2022	IE, NO	IE
I.3.489.	5.C.1. Waste incineration	Table5	N_2O	2022	IE, NO	IE
I.3.490.	5.C.1. Waste incineration	Table5	Total GHG emissions	2022	IE, NO	IE
I.3.491.	5.C.2. Open burning of waste	Table5	CO_2	2022	NE, NO	NE
I.3.492.	5.C.2. Open burning of waste	Table5	CH_4	2022	NE, NO	NE
I.3.493.	5.C.2. Open burning of waste	Table5	N_2O	2022	NE, NO	NE

ID#	Category	CRT	Gas	Inventory year	Notation key reported in latest submission (2025)	Notation key reported in previous submission (2024)
I.3.494.	5.C.2. Open burning of waste	Table5	Total GHG emissions	2022	NE, NO	NE

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	–243.3
I.4.2.	Table1.A(c)	Liquid fuels (excluding international bunkers)	CO_2 emissions	–245.5
I.4.3.	Table1.A(c)	Solid fuels (excluding international bunkers)	Energy consumption	–14.3
I.4.4.	Table1.A(c)	Solid fuels (excluding international bunkers)	CO_2 emissions	–6.5
I.4.5.	Table1.A(c)	Gaseous fuels	Energy consumption	11.9
I.4.6.	Table1.A(c)	Gaseous fuels	CO_2 emissions	11.9
I.4.7.	Table1.A(c)	Other fossil fuels	Energy consumption	–100.3
I.4.8.	Table1.A(c)	Other fossil fuels	CO_2 emissions	–100.3
I.4.9.	Table1.A(c)	Peat	Energy consumption	5.5
I.4.10.	Table1.A(c)	Peat	CO_2 emissions	5.5

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.2.a. Iron and steel	Table1	CO_2	1991	1992	69 262.07	35 085.97	–34 176.10	kt	–34 176.10	–49.3	–3.2
I.5.2.	1.A.2.c. Chemicals	Table1	CO_2	2020	2021	14 377.99	27 792.57	13 414.59	kt	13 414.59	93.3	4.0
I.5.3.	1.A.2.d. Pulp, paper and print	Table1	CO_2	1991	1992	5 005.46	527.89	–4 477.57	kt	–4 477.57	–89.5	–3.4
I.5.4.	1.A.2.e. Food processing, beverages and tobacco	Table1	CO_2	1991	1992	16 406.94	11 367.42	–5 039.53	kt	–5 039.53	–30.7	–3.2
I.5.5.	1.A.2.g. Other	Table1	CO_2	1991	1992	80 386.20	46 533.97	–33 852.22	kt	–33 852.22	–42.1	–3.2
I.5.6.	1.A.3.b. Road transportation	Table1	N_2O	2009	2010	5.65	3.43	–2.22	kt	–587.68	–39.3	–4.9
I.5.7.	1.A.3.c. Railways	Table1	CO_2	1993	1994	11 849.22	7 197.84	–4 651.38	kt	–4 651.38	–39.3	–3.2
I.5.8.	1.A.3.d. Domestic navigation	Table1	CO_2	1991	1992	16 025.94	7 667.52	–8 358.42	kt	–8 358.42	–52.2	–4.8
I.5.9.	1.A.3.e. Other transportation	Table1	CO_2	1991	1992	107 516.66	75 045.74	–32 470.91	kt	–32 470.91	–30.2	–3.4
I.5.10.	1.A.4.a. Commercial/institutional	Table1	CO_2	1991	1992	103 567.92	40 952.59	–62 615.33	kt	–62 615.33	–60.5	–3.9
I.5.11.	1.A.4.a. Commercial/institutional	Table1	CH_4	1991	1992	64.41	12.27	–52.14	kt	–1 459.98	–81.0	–4.5
I.5.12.	1.A.4.b. Residential	Table1	CO_2	1991	1992	84 245.40	149 116.45	64 871.04	kt	64 871.04	77.0	3.2

ID#	Category	CRT	Gas	Year 1	Year 2	Value 1	Value 2	Difference	Unit	Difference (CO_2 eq)	Difference (%)	Z-score
I.5.13.	1.A.4.b. Residential	Table1	CH_4	1999	2000	130.74	49.80	–80.94	kt	–2 266.35	–61.9	–4.7
I.5.14.	1.A.4.c. Agriculture/forestry/fishing	Table1	CO_2	1991	1992	58 549.36	38 373.78	–20 175.59	kt	–20 175.59	–34.5	–3.8
I.5.15.	1.A.4.c. Agriculture/forestry/fishing	Table1	CH_4	1991	1992	39.89	16.71	–23.18	kt	–649.16	–58.1	–4.2
I.5.16.	1.A.5.a. Stationary	Table1	CO_2	1991	1992	295 907.59	71 304.12	–224 603.47	kt	–224 603.47	–75.9	–5.4
I.5.17.	1.A.5.a. Stationary	Table1	CH_4	1991	1992	154.92	21.52	–133.41	kt	–3 735.39	–86.1	–4.6
I.5.18.	1.A.5.a. Stationary	Table1	N_2O	1991	1992	2.72	0.59	–2.12	kt	–562.59	–78.1	–5.4
I.5.19.	1.B.1.a. Coal mining and handling	Table1	CH_4	1990	1991	3 500.02	2 936.81	–563.21	kt	–15 769.95	–16.1	–3.7
I.5.20.	1.B.2.b. Natural gas	Table1	CH_4	2008	2009	3 509.65	2 842.60	–667.05	kt	–18 677.44	–19.0	–3.5
I.5.21.	1.D.1.a. Aviation	Table1	CO_2	2019	2020	11 463.42	5 420.39	–6 043.03	kt	–6 043.03	–52.7	–4.4
I.5.22.	1.D.1.b. Navigation	Table1	CO_2	2013	2014	35 715.67	51 133.67	15 418.00	kt	15 418.00	43.2	3.2
I.5.23.	1.D.3. CO_2 emissions from biomass	Table1	CO_2	1993	1994	45 744.90	32 179.57	–13 565.33	kt	–13 565.33	–29.7	–3.5
I.5.24.	2.A.3. Glass production	Table2(I)	CO_2	2009	2010	1 007.87	1 544.46	536.58	kt	536.58	53.2	4.3
I.5.25.	2.A.4. Other process uses of carbonates	Table2(I)	CO_2	1992	1993	12 343.95	8 305.83	–4 038.12	kt	–4 038.12	–32.7	–3.8
I.5.26.	2.B.1. Ammonia production	Table2(I)	CO_2	2021	2022	32 417.82	26 478.59	–5 939.24	kt	–5 939.24	–18.3	–3.5
I.5.27.	2.B.9. Fluorochemical production	Table2(I)	SF_6	2011	2012	0.01	0.22	0.21	kt	4 883.51	1 653.9	4.2
I.5.28.	2.B.9. Fluorochemical production	Table2(I)	SF_6	2013	2014	0.20	0.02	–0.18	kt	–4 280.01	–88.9	–3.6
I.5.29.	2.B.9. Fluorochemical production	Table2(II)	SF_6	2011	2012	12.56	220.37	207.81	t	4 883.51	1 653.9	4.2
I.5.30.	2.B.9. Fluorochemical production	Table2(II)	SF_6	2013	2014	204.98	22.85	–182.13	t	–4 280.01	–88.9	–3.6
I.5.31.	2.B.9.b. Fugitive emissions	Table2(II)	SF_6	2011	2012	12.56	220.37	207.81	t	4 883.51	1 653.9	4.2
I.5.32.	2.B.9.b. Fugitive emissions	Table2(II)	SF_6	2013	2014	204.98	22.85	–182.13	t	–4 280.01	–88.9	–3.6
I.5.33.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-134a	2020	2021	4 439.49	3 891.76	–547.73	t	–712.05	–12.3	–3.6
I.5.34.	3.D.1.a. Inorganic N fertilizers	Table3	N_2O	1993	1994	46.52	26.82	–19.70	kt	–5 219.88	–42.3	–3.0
I.5.35.	3.G. Liming	Table3	CO_2	1992	1993	8 149.17	5 871.25	–2 277.92	kt	–2 277.92	–28.0	–3.0
I.5.36.	3.G. Liming	Table3	CO_2	1993	1994	5 871.25	3 144.17	–2 727.08	kt	–2 727.08	–46.4	–3.7
I.5.37.	4.A.1. Forest land remaining forest land	Table4	CH_4	2021	2022	958.05	227.75	–730.31	kt	–20 448.55	–76.2	–3.0
I.5.38.	4.A.1. Forest land remaining forest land	Table4	N_2O	2021	2022	56.78	16.61	–40.18	kt	–10 647.15	–70.8	–3.0
I.5.39.	4.C.2. Land converted to grassland	Table4	Net CO_2 emissions/removals	2002	2003	–123 610.44	–190 103.34	–66 492.91	kt CO_2 eq	–66 492.91	53.8	–3.2
I.5.40.	4.D.1. Wetlands remaining wetlands	Table4	N_2O	2013	2014	0.63	2.95	2.32	kt	614.86	369.5	5.4
I.5.41.	4.E.2. Land converted to settlements	Table4	Net CO_2 emissions/removals	2009	2010	39 595.84	–6 914.35	–46 510.19	kt CO_2 eq	–46 510.19	–117.5	–3.3
I.5.42.	4.E.2. Land converted to settlements	Table4	N_2O	2009	2010	21.80	0.53	–21.28	kt	–5 637.90	–97.6	–4.2
I.5.43.	4.F.2. Land converted to other land	Table4	Net CO_2 emissions/removals	2009	2010	27 064.39	269.32	–26 795.07	kt CO_2 eq	–26 795.07	–99.0	–3.3
I.5.44.	4.F.2. Land converted to other land	Table4	N_2O	2009	2010	9.79	0.03	–9.76	kt	–2 587.60	–99.7	–5.1

ID#	Category	CRT	Gas	Year 1	Year 2	Value 1	Value 2	Difference	Unit	Difference (CO_2 eq)	Difference (%)	Z-score
I.5.45.	4.G. Harvested wood products	Table4	Net CO_2 emissions/removals	2008	2009	23 040.25	6 694.78	–16 345.48	kt CO_2 eq	–16 345.48	–70.9	–3.0
I.5.46.	5.D.2. Industrial wastewater	Table5	CH_4	1991	1992	272.75	213.02	–59.73	kt	–1 672.41	–21.9	–3.2
I.5.47.	5.F.2. Annual change in total carbon storage	Table5	CO_2	2021	2022	13 838.07	10 866.30	–2 971.77	kt	–2 971.77	–21.5	–3.4

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

ID#	Category	CRT	Gas	Unit	IEF reported	Comparison
I.6.1.	1.A.1. Energy industries – other fossil fuels	Table1.A(a)s1	CO_2	t/TJ	143.000	Above range
I.6.2.	1.A.2. Manufacturing industries and construction – solid fuels	Table1.A(a)s2	CO_2	t/TJ	38.913	Below range
I.6.3.	1.A.2. Manufacturing industries and construction – other fossil fuels	Table1.A(a)s2	CO_2	t/TJ	143.000	Above range
I.6.4.	1.A.4. Other sectors – liquid fuels	Table1.A(a)s4	CO_2	t/TJ	66.661	Below range
I.6.5.	1.A.5. Other (not specified elsewhere) – gaseous fuels	Table1.A(a)s4	CO_2	t/TJ	54.400	Below range
I.6.6.	1.B.1.a.ii. Surface mines	Table1.B.1	CH_4	kg/TJ	1.889	Above range
I.6.7.	1.B.1.a.ii.1. Mining activities	Table1.B.1	CH_4	kg/TJ	1.755	Above range
I.6.8.	1.B.1.a.ii.2. Post-mining activities	Table1.B.1	CH_4	kg/TJ	0.134	Above range
I.6.9.	2.F.1.a. Commercial refrigeration – HFC-32	Table2(II).B-Hs2	Product manufacturing factor	%	7.700	Above range
I.6.10.	2.F.1.a. Commercial refrigeration – HFC-125	Table2(II).B-Hs2	Product manufacturing factor	%	7.700	Above range
I.6.11.	2.F.1.a. Commercial refrigeration – HFC-134a	Table2(II).B-Hs2	Product manufacturing factor	%	7.700	Above range
I.6.12.	2.F.1.c. Industrial refrigeration – HFC-125	Table2(II).B-Hs2	Product manufacturing factor	%	7.700	Above range
I.6.13.	2.F.1.c. Industrial refrigeration – HFC-134a	Table2(II).B-Hs2	Product manufacturing factor	%	7.700	Above range

ID#	*Category*	*CRT*	*Gas*	*Unit*	*IEF reported*	*Comparison*
I.6.14.	2.F.1.c. Industrial refrigeration – HFC-143a	Table2(II).B-Hs2	Product manufacturing factor	%	7.700	Above range
I.6.15.	2.F.1.e. Mobile air conditioning – HFC-134a	Table2(II).B-Hs2	Product manufacturing factor	%	5.991	Above range
I.6.16.	2.F.1.f. Stationary air conditioning – HFC-32	Table2(II).B-Hs2	Product manufacturing factor	%	6.600	Above range
I.6.17.	2.F.1.f. Stationary air conditioning – HFC-125	Table2(II).B-Hs2	Product manufacturing factor	%	6.600	Above range
I.6.18.	2.F.1.f. Stationary air conditioning – HFC-134a	Table2(II).B-Hs2	Product manufacturing factor	%	41.425	Above range
I.6.19.	3.A.1.a. Dairy cattle	Table3.A	CH_4	kg CH_4/head/year	88.094	Below range
I.6.20.	3.A.4.h.i. Rabbit	Table3.A	CH_4	kg CH_4/head/year	0.590	Above range
I.6.21.	3.D.1.a. Inorganic N fertilizers	Table3.D	N_2O	kg N_2O-N/kg N	0.000	Below range
I.6.22.	3.D.1.b. Organic N fertilizers	Table3.D	N_2O	kg N_2O-N/kg N	0.000	Below range
I.6.23.	3.D.1.b.i. Animal manure applied to soils	Table3.D	N_2O	kg N_2O-N/kg N	0.000	Below range

Table I.7
Identification of new key categories

ID#	*New key category*	*Gas*	*Criteria*	*Inventory year*
I.7.1.	1.A.3.c. Railways	CO_2	Level	2023
I.7.2.	1.A.5. Other (not specified elsewhere) – liquid fuels	CO_2	Level	2023
I.7.3.	1.A.5. Other (not specified elsewhere) – solid fuels	CO_2	Level	2023
I.7.4.	4.F.2. Land converted to other land	CO_2	Level	2023
I.7.5.	4.F.2. Land converted to other land	CO_2	Trend	2023
I.7.6.	4(IV). Biomass burning	CH_4	Trend	2023