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

Summary

This report presents the results of the simplified review of the 2025 national inventory report of Cyprus, 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

CH ₄	methane
CO ₂	carbon dioxide
CO ₂ eq	carbon dioxide equivalent
CRT	common reporting table
GHG	greenhouse gas
HFC	hydrofluorocarbon
HWP	harvested wood products
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 Cyprus 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 Cyprus, which provided comments on individual findings on 24 June 2025 that were addressed by the secretariat and incorporated, as appropriate, in this final version of the report.³ Cyprus did not provide any general comments on the report.
3. The secretariat conducted the simplified review of Cyprus'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 Cyprus'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

<i>Area of review</i>	<i>Description</i>	<i>Assessment</i>
Dates of submission	2025 submission: CRTs, 7 May 2025 2024 submission: CRTs, 20 September 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 (4.25 kt CO₂ 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	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>
	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	
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 did not provide any general comments.

Annex

Findings of the initial assessment of Cyprus'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

<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.f. Non-metallic minerals	Table1	CO ₂	2022	393.00	410.34	–17.35 kt	–4.2	–17.35
I.1.2.	1.D.3. CO ₂ emissions from biomass	Table1	CO ₂	2022	401.03	415.25	–14.22 kt	–3.4	–14.22
I.1.3.	2.F.1. Refrigeration and air conditioning	Table2(I)	HFCs	2022	381.40	369.96	11.44 kt CO ₂ eq	3.1	11.44
I.1.4.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-125	2022	58.57	56.25	2.32 t	4.1	7.35

Table I.2

Findings on completeness

<i>ID#</i>	<i>Sector, category or gas</i>	<i>CRT</i>	<i>Gas</i>	<i>Inventory year</i>	<i>Notation key Finding type</i>
I.2.1.	2.D.1. Lubricant use	Table2(I)	CH ₄	1990	NE Reporting of “NE” detected
I.2.2.	2.D.1. Lubricant use	Table2(I)	N ₂ O	1990	NE Reporting of “NE” detected
I.2.3.	2.F.2. Foam blowing agents	Table2(I)	HFCs	1990	NE, NO Reporting of “NE” detected
I.2.4.	2.F.2. Foam blowing agents	Table2(I)	Total GHG emissions	1990	NE, NO Reporting of “NE” detected
I.2.5.	2.F.3. Fire protection	Table2(I)	HFCs	1990	NE, NO Reporting of “NE” detected
I.2.6.	2.F.3. Fire protection	Table2(I)	Total GHG emissions	1990	NE, NO Reporting of “NE” detected
I.2.7.	2.D.1. Lubricant use	Table2(I)	CH ₄	2023	NE Reporting of “NE” detected
I.2.8.	2.D.1. Lubricant use	Table2(I)	N ₂ O	2023	NE Reporting of “NE” detected
I.2.9.	2.D.3. Other	Table2(I)	CH ₄	2023	NE Reporting of “NE” detected
I.2.10.	2.D.3. Other	Table2(I)	N ₂ O	2023	NE Reporting of “NE” detected
I.2.11.	2.F.2. Foam blowing agents	Table2(II)	HFC-134a	1990	NE, NO Reporting of “NE” detected
I.2.12.	2.F.3. Fire protection	Table2(II)	HFC-227ea	1990	NE, NO Reporting of “NE” detected
I.2.13.	4.D.1. Wetlands remaining wetlands	Table4	Net CO ₂ emissions/removals	1990	NE, NO Reporting of “NE” detected

<i>ID#</i>	<i>Sector, category or gas</i>	<i>CRT</i>	<i>Gas</i>	<i>Inventory year</i>	<i>Notation key Finding type</i>
I.2.14.	4.D.1. Wetlands remaining wetlands	Table4	Total GHG emissions/removals	1990	NE, NO Reporting of “NE” detected
I.2.15.	4.D.1. Wetlands remaining wetlands	Table4	Net CO ₂ emissions/removals	2023	NE, NO Reporting of “NE” detected
I.2.16.	4.D.1. Wetlands remaining wetlands	Table4	Total GHG emissions/removals	2023	NE, NO Reporting of “NE” detected
I.2.17.	5.F.1. Long-term storage of carbon in waste disposal sites	Table5	CO ₂	1990	NE Reporting of “NE” detected
I.2.18.	5.F.1. Long-term storage of carbon in waste disposal sites	Table5	Total GHG emissions	1990	NE Reporting of “NE” detected
I.2.19.	5.F.2. Annual change in total carbon storage	Table5	CO ₂	1990	NE Reporting of “NE” detected
I.2.20.	5.F.2. Annual change in total carbon storage	Table5	Total GHG emissions	1990	NE Reporting of “NE” detected
I.2.21.	5.F.3. Annual change in total carbon storage in HWP waste	Table5	CO ₂	1990	NE Reporting of “NE” detected
I.2.22.	5.F.3. Annual change in total carbon storage in HWP waste	Table5	Total GHG emissions	1990	NE Reporting of “NE” detected
I.2.23.	5.B.2. Anaerobic digestion at biogas facilities	Table5	N ₂ O	2023	NE Reporting of “NE” detected
I.2.24.	5.C.2. Open burning of waste	Table5	CH ₄	2023	NE, NO Reporting of “NE” detected
I.2.25.	5.C.2. Open burning of waste	Table5	N ₂ O	2023	NE, NO Reporting of “NE” detected
I.2.26.	5.C.2. Open burning of waste	Table5	Total GHG emissions	2023	NE, NO Reporting of “NE” detected
I.2.27.	HFCs	Table10s6	–	1990	NA, NE, NO Gas or sector not reported
I.2.28.	PFCs	Table10s6	–	1990	NO Gas or sector not reported
I.2.29.	PFCs	Table10s6	–	2023	NO Gas or sector not reported
I.2.30.	Unspecified mix of HFCs and PFCs	Table10s6	–	1990	NO Gas or sector not reported
I.2.31.	Unspecified mix of HFCs and PFCs	Table10s6	–	2023	NO Gas or sector not reported
I.2.32.	NF ₃	Table10s6	–	1990	NO Gas or sector not reported
I.2.33.	NF ₃	Table10s6	–	2023	NO Gas or sector not reported
I.2.34.	6. Other	Table10s6	–	1990	NO Gas or sector not reported
I.2.35.	6. Other	Table10s6	–	2023	NO Gas or sector not reported

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

<i>ID#</i>	<i>Category</i>	<i>CRT</i>	<i>Gas</i>	<i>Inventory year</i>	<i>Notation key reported in latest submission (2025)</i>	<i>Notation key reported in previous submission (2024)</i>
I.3.1.	2.D.3. Other	Table2(I)	CO ₂	1990	NO	IE, NO

ID#	Category	CRT	Gas	Inventory year	Notation key reported in latest	Notation key reported in previous
					submission (2025)	submission (2024)
I.3.2.	2.D.3. Other	Table2(I)	CH ₄	1990	NO	NE, NO
I.3.3.	2.D.3. Other	Table2(I)	N ₂ O	1990	NO	NE, NO
I.3.4.	2.D.3. Other	Table2(I)	Total GHG emissions	1990	NO	IE, NE, NO
I.3.5.	2.G.4. Other	Table2(I)	CO ₂	1990	NA	IE
I.3.6.	2.G.4. Other	Table2(I)	CH ₄	1990	NA	NE
I.3.7.	2.G.4. Other	Table2(I)	N ₂ O	1990	NA	NE
I.3.8.	2.G.4. Other	Table2(I)	Total GHG emissions	1990	NA, NO	IE, NE
I.3.9.	2.G.4. Other	Table2(I)	CO ₂	2022	NA	IE
I.3.10.	2.G.4. Other	Table2(I)	CH ₄	2022	NA	NE
I.3.11.	2.G.4. Other	Table2(I)	N ₂ O	2022	NA	NE
I.3.12.	2.G.4. Other	Table2(I)	Total GHG emissions	2022	NA, NO	IE, NE
I.3.13.	5.C.2. Open burning of waste	Table5	CH ₄	2022	NE, NO	NO
I.3.14.	5.C.2. Open burning of waste	Table5	N ₂ O	2022	NE, NO	NO
I.3.15.	5.C.2. Open burning of waste	Table5	Total GHG emissions	2022	NE, NO	NO

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)	Other fossil fuels	CO ₂ emissions	7.5

Table I.5

Findings on time-series consistency

ID#	Category	CRT	Gas	Year 1	Year 2	Value 1	Value 2	Difference	Unit	Difference	Difference	Z-score
										(CO ₂ eq)	(%)	
I.5.1.	1.A.1.a. Public electricity and heat production	Table1	CO ₂	2012	2013	3 545.93	2 829.73	-716.20	kt	-716.20	-20.2	-3.9
I.5.2.	1.A.2.d. Pulp, paper and print	Table1	CO ₂	1990	1991	4.82	16.16	11.34	kt	11.34	235.1	4.4
I.5.3.	1.A.2.e. Food processing, beverages and tobacco	Table1	CO ₂	1990	1991	72.57	209.33	136.76	kt	136.76	188.5	4.3
I.5.4.	1.A.2.g. Other	Table1	CO ₂	1990	1991	38.01	100.18	62.18	kt	62.18	163.6	3.5
I.5.5.	1.A.4.a. Commercial/institutional	Table1	CO ₂	2019	2020	116.95	84.98	-31.97	kt	-31.97	-27.3	-3.0
I.5.6.	1.A.5.a. Stationary	Table1	CO ₂	2007	2008	20.32	42.62	22.30	kt	22.30	109.8	3.2
I.5.7.	1.A.5.a. Stationary	Table1	CO ₂	2008	2009	42.62	17.13	-25.49	kt	-25.49	-59.8	-3.8
I.5.8.	1.D.1.a. Aviation	Table1	CO ₂	2019	2020	1 008.65	318.41	-690.24	kt	-690.24	-68.4	-4.6

<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.5.9.	1.D.1.a. Aviation	Table1	N ₂ O	2019	2020	0.03	0.01	−0.02	kt	−5.12	−68.4	−4.6
I.5.10.	1.D.1.b. Navigation	Table1	CO ₂	2004	2005	170.46	917.05	746.59	kt	746.59	438.0	4.6
I.5.11.	1.D.1.b. Navigation	Table1	N ₂ O	2004	2005	0.01	0.03	0.02	kt	6.02	338.5	4.1
I.5.12.	1.D.3. CO ₂ emissions from biomass	Table1	CO ₂	2019	2020	308.85	400.63	91.79	kt	91.79	29.7	3.0
I.5.13.	2.A.1. Cement production	Table2(I)	CO ₂	2012	2013	504.54	752.29	247.76	kt	247.76	49.1	3.0
I.5.14.	2.A.4. Other process uses of carbonates	Table2(I)	CO ₂	2008	2009	72.41	45.08	−27.33	kt	−27.33	−37.7	−3.3
I.5.15.	4.B.2. Land converted to cropland	Table4	Net CO ₂ emissions/removals	2012	2013	0.68	6.62	5.94	kt CO ₂ eq	5.94	867.1	5.5
I.5.16.	4.E.2. Land converted to settlements	Table4	Net CO ₂ emissions/removals	2000	2001	0.27	22.98	22.71	kt CO ₂ eq	22.71	8 437.3	4.5
I.5.17.	4.E.2. Land converted to settlements	Table4	Net CO ₂ emissions/removals	2006	2007	24.72	8.31	−16.41	kt CO ₂ eq	−16.41	−66.4	−3.3

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.	3.B.2. Sheep	Table3.B(b)	N ₂ O	kg N ₂ O/head/year	0.158	Above range
I.6.2.	3.B.2.a. Other (please specify)	Table3.B(b)	N ₂ O	kg N ₂ O/head/year	0.158	Above range
I.6.3.	3.B.2.a. Other (please specify) – sheep	Table3.B(b)	N ₂ O	kg N ₂ O/head/year	0.158	Above range
I.6.4.	3.D.1.d. Crop residues	Table3.D	N ₂ O	kg N ₂ O-N/kg N	1.000	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.1. Fuel combustion – energy industries – liquid fuels	CO ₂	Trend	2023
I.7.2.	1.A.2. Fuel combustion – manufacturing industries and construction – liquid fuels	CO ₂	Trend	2023
I.7.3.	1.A.2. Fuel combustion – manufacturing industries and construction – solid fuels	CO ₂	Trend	2023
I.7.4.	1.A.2. Fuel combustion – manufacturing industries and construction – other fossil fuels	CO ₂	Trend	2023
I.7.5.	1.A.3.a. Domestic aviation	CO ₂	Trend	2023
I.7.6.	1.A.3.b. Road transportation	CO ₂	Trend	2023

<i>ID#</i>	<i>New key category</i>	<i>Gas</i>	<i>Criteria</i>	<i>Inventory</i>
				<i>year</i>
I.7.7.	1.A.4. Other sectors – liquid fuels	CO ₂	Trend	2023
I.7.8.	2.A.1. Cement production	CO ₂	Trend	2023
I.7.9.	2.A.4. Other process uses of carbonates	CO ₂	Trend	2023
I.7.10.	2.F.1. Refrigeration and air conditioning	Aggregate fluorinated gases	Trend	2023
I.7.11.	3.B. Manure management	CH ₄	Level	2023
I.7.12.	3.B. Manure management	CH ₄	Trend	2023
I.7.13.	3.B. Manure management	N ₂ O	Trend	2023
I.7.14.	3.D.1. Direct N ₂ O emissions from managed soils	N ₂ O	Trend	2023
I.7.15.	4.A.1. Forest land remaining forest land	CO ₂	Trend	2023
I.7.16.	4.A.2. Land converted to forest land	CO ₂	Trend	2023
I.7.17.	4.B.1. Cropland remaining cropland	CO ₂	Trend	2023
I.7.18.	4.G. HWP	CO ₂	Trend	2023
I.7.19.	5.A. Solid waste disposal	CH ₄	Trend	2023
I.7.20.	5.D. Wastewater treatment and discharge	CH ₄	Trend	2023