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

Summary

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

C_2F_6	hexafluoroethane
CH_4	methane
CO_2	carbon dioxide
CO_2 eq	carbon dioxide equivalent
CRT	common reporting table
F-gas	fluorinated gas
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_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 Malta 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 14 May 2025 a draft version of this report was transmitted to the Government of Malta, which provided comments on individual findings on 6 June 2025 that were addressed by the secretariat and incorporated, as appropriate, in this final version of the report.[3] Malta did not provide any general comments on the report.

3. The secretariat conducted the simplified review of Malta'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 Malta'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, 27 March 2025	
	2024 submission: CRTs, 19 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 (**1.12 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)	No findings for this area
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.

Area of review	*Description*	*Assessment*
	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 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 did not provide any general comments.

Annex

Findings of the initial assessment of Malta'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.	3.D.1.b. Organic N fertilizers	Table3	N_2O	2022	0.03	0.04	–0.01	kt	–15.3	–1.52
I.1.2.	5.B.2. Anaerobic digestion at biogas facilities	Table5	CH_4	2022	0.01	0.05	–0.04	kt	–79.8	–1.18

Table I.2
Findings on completeness

ID#	*Sector, category or gas*	*CRT*	*Gas*	*Inventory year*	*Notation key*	*Finding type*
I.2.1.	2.F.4. Aerosols	Table2(I)	HFCs	1990	NE, NO	Reporting of "NE" detected
I.2.2.	2.F.4. Aerosols	Table2(I)	Total GHG emissions	1990	NE, NO	Reporting of "NE" detected
I.2.3.	2.F.4. Aerosols	Table2(II)	HFC-134a	1990	NE, NO	Reporting of "NE" detected
I.2.4.	3.H. Urea application	Table3	CO_2	1990	NE	Reporting of "NE" detected
I.2.5.	3.H. Urea application	Table3	Total GHG emissions	1990	NE	Reporting of "NE" detected
I.2.6.	3.H. Urea application	Table3	CO_2	2023	NE	Reporting of "NE" detected
I.2.7.	3.H. Urea application	Table3	Total GHG emissions	2023	NE	Reporting of "NE" detected
I.2.8.	4.C.1. Grassland remaining grassland	Table4	Net CO_2 emissions/removals	1990	NE, NO	Reporting of "NE" detected
I.2.9.	4.C.1. Grassland remaining grassland	Table4	Total GHG emissions/removals	1990	NE, NO	Reporting of "NE" detected
I.2.10.	4.C.1. Grassland remaining grassland	Table4	Net CO_2 emissions/removals	2023	NE, NO	Reporting of "NE" detected
I.2.11.	4.C.1. Grassland remaining grassland	Table4	Total GHG emissions/removals	2023	NE, NO	Reporting of "NE" detected
I.2.12.	5.C.2. Open burning of waste	Table5	CO_2	1990	NE	Reporting of "NE" detected
I.2.13.	5.C.2. Open burning of waste	Table5	CH_4	1990	NE	Reporting of "NE" detected

ID#	Sector, category or gas	CRT	Gas	Inventory year	Notation key	Finding type
I.2.14.	5.C.2. Open burning of waste	Table5	N_2O	1990	NE	Reporting of “NE” detected
I.2.15.	5.C.2. Open burning of waste	Table5	Total GHG emissions	1990	NE	Reporting of “NE” detected
I.2.16.	5.F.1. Long-term storage of carbon in waste disposal sites	Table5	CO_2	1990	NE	Reporting of “NE” detected
I.2.17.	5.F.1. Long-term storage of carbon in waste disposal sites	Table5	Total GHG emissions	1990	NE	Reporting of “NE” detected
I.2.18.	5.F.2. Annual change in total carbon storage	Table5	CO_2	1990	NE	Reporting of “NE” detected
I.2.19.	5.F.2. Annual change in total carbon storage	Table5	Total GHG emissions	1990	NE	Reporting of “NE” detected
I.2.20.	5.F.3. Annual change in total carbon storage in HWP waste	Table5	CO_2	1990	NE	Reporting of “NE” detected
I.2.21.	5.F.3. Annual change in total carbon storage in HWP waste	Table5	Total GHG emissions	1990	NE	Reporting of “NE” detected
I.2.22.	5.B.1. Composting	Table5	CH_4	2023	NE, NO	Reporting of “NE” detected
I.2.23.	5.B.1. Composting	Table5	N_2O	2023	NE, NO	Reporting of “NE” detected
I.2.24.	5.B.1. Composting	Table5	Total GHG emissions	2023	NE, NO	Reporting of “NE” detected
I.2.25.	5.C.2. Open burning of waste	Table5	CO_2	2023	NE	Reporting of “NE” detected
I.2.26.	5.C.2. Open burning of waste	Table5	CH_4	2023	NE	Reporting of “NE” detected
I.2.27.	5.C.2. Open burning of waste	Table5	N_2O	2023	NE	Reporting of “NE” detected
I.2.28.	5.C.2. Open burning of waste	Table5	Total GHG emissions	2023	NE	Reporting of “NE” detected
I.2.29.	5.F.1. Long-term storage of carbon in waste disposal sites	Table5	CO_2	2023	NE	Reporting of “NE” detected
I.2.30.	5.F.1. Long-term storage of carbon in waste disposal sites	Table5	Total GHG emissions	2023	NE	Reporting of “NE” detected
I.2.31.	5.F.2. Annual change in total carbon storage	Table5	CO_2	2023	NE	Reporting of “NE” detected
I.2.32.	5.F.2. Annual change in total carbon storage	Table5	Total GHG emissions	2023	NE	Reporting of “NE” detected
I.2.33.	5.F.3. Annual change in total carbon storage in HWP waste	Table5	CO_2	2023	NE	Reporting of “NE” detected
I.2.34.	5.F.3. Annual change in total carbon storage in HWP waste	Table5	Total GHG emissions	2023	NE	Reporting of “NE” detected
I.2.35.	HFCs	Table10s6	–	1990	IE, NA, NE, NO	Gas or sector not reported
I.2.36.	PFCs	Table10s6	–	1990	NA, NO	Gas or sector not reported
I.2.37.	Unspecified mix of HFCs and PFCs	Table10s6	–	1990	NO	Gas or sector not reported
I.2.38.	Unspecified mix of HFCs and PFCs	Table10s6	–	2023	NO	Gas or sector not reported
I.2.39.	NF_3	Table10s6	–	1990	NO	Gas or sector not reported
I.2.40.	NF_3	Table10s6	–	2023	NO	Gas or sector not reported
I.2.41.	6. Other	Table10s6	–	1990	NA, NO	Gas or sector not reported
I.2.42.	6. Other	Table10s6	–	2023	NA, NO	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.	5.C.2. Open burning of waste	Table5	CH_4	2022	NE	NE, NO
I.3.2.	5.C.2. Open burning of waste	Table5	N_2O	2022	NE	NE, NO
I.3.3.	5.C.2. Open burning of waste	Table5	Total GHG emissions	2022	NE	NE, 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 (%)*
No findings for this area				

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.a. Public electricity and heat production	Table1	CO_2	2014	2015	1 651.59	883.81	–767.78	kt	–767.78	–46.5	–3.4
I.5.2.	1.A.1.a. Public electricity and heat production	Table1	N_2O	1992	1993	0.02	0.02	0.01	kt	1.64	39.1	3.2
I.5.3.	1.A.3.a. Domestic aviation	Table1	CO_2	2017	2018	1.68	0.54	–1.13	kt	–1.13	–67.5	–3.6
I.5.4.	1.A.3.b. Road transportation	Table1	CO_2	2019	2020	651.07	520.72	–130.35	kt	–130.35	–20.0	–4.1
I.5.5.	1.A.4.a. Commercial/institutional	Table1	CO_2	2000	2001	209.98	119.10	–90.88	kt	–90.88	–43.3	–3.2
I.5.6.	1.A.4.b. Residential	Table1	CO_2	2004	2005	101.13	50.08	–51.04	kt	–51.04	–50.5	–4.0
I.5.7.	1.D.1.a. Aviation	Table1	CO_2	2019	2020	502.59	192.73	–309.86	kt	–309.86	–61.7	–4.8
I.5.8.	1.D.1.a. Aviation	Table1	N_2O	2019	2020	0.01	0.01	–0.01	kt	–2.23	–61.7	–4.5
I.5.9.	2.A.4. Other process uses of carbonates	Table2(I)	CO_2	2012	2013	0.90	2.54	1.64	kt	1.64	181.6	4.1
I.5.10.	2.D.3. Other	Table2(I)	CO_2	2012	2013	1.29	5.32	4.03	kt	4.03	313.0	4.5
I.5.11.	2.F.4. Aerosols	Table2(I)	HFCs	2008	2009	5.26	2.01	–3.24	kt CO_2 eq	–3.24	–61.7	–3.1
I.5.12.	2.G.1. Electrical equipment	Table2(I)	SF_6	2011	2012	0.00	0.00	0.00	kt	–4.27	–90.2	–3.8
I.5.13.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-32	2019	2020	10.79	13.49	2.70	t	1.83	25.1	3.5
I.5.14.	2.F.4. Aerosols	Table2(II)	HFC-134a	2008	2009	4.04	1.55	–2.49	t	–3.24	–61.7	–3.1
I.5.15.	2.G.1. Electrical equipment	Table2(II)	SF_6	2011	2012	0.20	0.02	–0.18	t	–4.27	–90.2	–3.8
I.5.16.	3.A.3. Swine	Table3	CH_4	1995	1996	0.15	0.10	–0.05	kt	–1.43	–33.0	–3.8

ID#	*Category*	*CRT*	*Gas*	*Year 1*	*Year 2*	*Value 1*	*Value 2*	*Difference*	*Unit*	*Difference (CO_2 eq)*	*Difference (%)*	*Z-score*
I.5.17.	3.B.1. Cattle	Table3	CH_4	2004	2005	0.19	0.14	–0.05	kt	–1.33	–25.0	–3.8
I.5.18.	3.B.1.a. Other	Table3	CH_4	2004	2005	0.19	0.14	–0.05	kt	–1.33	–25.0	–3.8
I.5.19.	3.D.1.a. Inorganic N fertilizers	Table3	N_2O	2019	2020	0.03	0.03	0.01	kt	1.94	27.0	3.6
I.5.20.	4.B.1. Cropland remaining cropland	Table4	Net CO_2 emissions/removals	2005	2006	–1.04	0.37	1.41	kt CO_2 eq	1.41	–135.6	3.5
I.5.21.	4.B.2. Land converted to cropland	Table4	Net CO_2 emissions/removals	2001	2002	–0.55	25.22	25.77	kt CO_2 eq	25.77	–4 685.4	3.5
I.5.22.	4.B.2. Land converted to cropland	Table4	Net CO_2 emissions/removals	2003	2004	25.22	–0.30	–25.52	kt CO_2 eq	–25.52	–101.2	–3.5
I.5.23.	4.C.2. Land converted to grassland	Table4	Net CO_2 emissions/removals	2018	2019	3.14	–3.11	–6.25	kt CO_2 eq	–6.25	–199.1	–3.0
I.5.24.	4.E.2. Land converted to settlements	Table4	Net CO_2 emissions/removals	2018	2019	0.15	8.33	8.18	kt CO_2 eq	8.18	5 373.6	4.2
I.5.25.	4.E.2. Land converted to settlements	Table4	Net CO_2 emissions/removals	2020	2021	9.38	2.24	–7.14	kt CO_2 eq	–7.14	–76.1	–3.7
I.5.26.	4.F.2. Land converted to other land	Table4	Net CO_2 emissions/removals	2018	2019	0.60	2.95	2.35	kt CO_2 eq	2.35	390.4	4.5
I.5.27.	5.A.2. Unmanaged waste disposal sites	Table5	CH_4	2007	2008	4.89	1.18	–3.71	kt	–103.94	–75.9	–5.2
I.5.28.	5.D.1. Domestic wastewater	Table5	CH_4	2010	2011	0.66	0.17	–0.48	kt	–13.51	–73.4	–4.7
I.5.29.	5.D.1. Domestic wastewater	Table5	N_2O	2010	2011	0.04	0.02	–0.02	kt	–4.55	–47.1	–4.6

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.	2.F.1.a. Commercial refrigeration – C_2F_6	Table2(II).B-Hs2	Product life factor	%	20.000	Above range
I.6.2.	3.A.4. Other livestock	Table3.A	CH_4	kg CH_4/head/year	1.615	Above range

Table I.7

Identification of new key categories

ID#	*New key category*	*Gas*	*Criteria*	*Inventory year*
I.7.1.	1.A.1. Fuel combustion – energy industries – liquid fuels	CO_2	Trend	2023
I.7.2.	1.A.1. Fuel combustion – energy industries – gaseous fuels	CO_2	Trend	2023
I.7.3.	1.A.3.b. Road transportation	CO_2	Trend	2023

ID#	*New key category*	*Gas*	*Criteria*	*Inventory year*
I.7.4.	1.A.3.d. Domestic navigation – liquid fuels	CO_2	Trend	2023
I.7.5.	1.A.4. Other sectors – liquid fuels	CO_2	Trend	2023
I.7.6.	2.F.1. Refrigeration and air conditioning	Aggregate F-gases	Trend	2023
I.7.7.	3.D.1. Direct N_2O emissions from managed soils	N_2O	Level	2023
I.7.8.	5.A. Solid waste disposal	CH_4	Trend	2023