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

Summary

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

I. Introduction

1. This report covers the simplified review of the NIR of Switzerland 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 15 May 2025 a draft version of this report was transmitted to the Government of Switzerland, which provided comments on individual findings on 10 June 2025 that were addressed by the secretariat and incorporated, as appropriate, in this final version of the report.[3] In addition, Switzerland provided general comments on the report (see chap. II.B below).

3. The secretariat conducted the simplified review of Switzerland'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 Switzerland'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, 10 April 2025	
	2024 submission: CRTs, 12 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 (**20.42 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 for 1990 and 2022 since the previous submission	See table I.3
Sectoral and reference approaches	Discrepancies 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

[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.

> Due to limited functionality of the ETF Reporting Tool, Switzerland was unable to submit fully disaggregated data. The import of the JSON file with data for country-specific nodes was not supported by the ETF Reporting Tool, therefore, emissions are reported at the next higher aggregation level.
>
> Due to performance issues with the ETF Reporting Tool, Switzerland was unable to finalize the software interface from the national database to the ETF Reporting Tool. Therefore, there are some issues with missing notation keys remaining.
>
> For further details, see Annex 7 of the NID.

[6] The comments provided by Switzerland are presented verbatim.

Annex

Findings of the initial assessment of Switzerland'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.A.1.a. Public electricity and heat production	Table1	CO_2	2022	2 890.68	2 786.83	103.84	kt	3.7	103.84
I.1.2.	1.D.3. CO_2 emissions from biomass	Table1	CO_2	2022	7 866.00	8 236.17	–370.18	kt	–4.5	–370.18
I.1.3.	2.F.1. Refrigeration and air conditioning	Table2(I)	HFCs	2022	1 160.29	1 185.09	–24.80	kt CO_2 eq	–2.1	–24.80
I.1.4.	3.D.1.d. Crop residues	Table3	N_2O	1990	1.17	0.60	0.57	kt	94.4	150.94
I.1.5.	3.D.2. Indirect N_2O Emissions from managed soils	Table3	N_2O	1990	2.41	2.27	0.14	kt	6.1	36.92
I.1.6.	3.D.1.d. Crop residues	Table3	N_2O	2022	1.18	0.50	0.68	kt	136.8	180.29
I.1.7.	3.D.1.e. Mineralization/immobilization associated with loss/gain of soil organic matter	Table3	N_2O	2022	0.02	0.23	–0.21	kt	–90.3	–55.18
I.1.8.	3.D.2. Indirect N_2O Emissions from managed soils	Table3	N_2O	2022	1.61	1.51	0.09	kt	6.2	24.73
I.1.9.	4.A.2. Land converted to forest land	Table4	Net CO_2 emissions/removals	1990	–767.08	–639.92	–127.17	kt CO_2 eq	–19.9	–127.17
I.1.10.	4.B.1. Cropland remaining cropland	Table4	Net CO_2 emissions/removals	1990	523.25	561.42	–38.17	kt CO_2 eq	–6.8	–38.17
I.1.11.	4.C.1. Grassland remaining grassland	Table4	Net CO_2 emissions/removals	1990	–644.51	–1 169.79	525.28	kt CO_2 eq	44.9	525.28
I.1.12.	4.C.2. Land converted to grassland	Table4	Net CO_2 emissions/removals	1990	191.09	147.92	43.17	kt CO_2 eq	29.2	43.17
I.1.13.	4.E.2. Land converted to settlements	Table4	Net CO_2 emissions/removals	1990	212.33	267.62	–55.29	kt CO_2 eq	–20.7	–55.29
I.1.14.	4.G. Harvested wood products	Table4	Net CO_2 emissions/removals	1990	–1 149.13	–1 118.55	–30.58	kt CO_2 eq	–2.7	–30.58
I.1.15.	4.A.1. Forest land remaining forest land	Table4	Net CO_2 emissions/removals	2022	–1 124.31	–635.00	–489.32	kt CO_2 eq	–77.1	–489.32
I.1.16.	4.A.2. Land converted to forest land	Table4	Net CO_2 emissions/removals	2022	–787.84	–632.45	–155.39	kt CO_2 eq	–24.6	–155.39

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.1.17.	4.B.1. Cropland remaining cropland	Table4	Net CO_2 emissions/removals	2022	–173.55	743.03	–916.57	kt CO_2 eq	–123.4	–916.57
I.1.18.	4.B.2. Land converted to cropland	Table4	Net CO_2 emissions/removals	2022	–34.74	–6.76	–27.99	kt CO_2 eq	–414.2	–27.99
I.1.19.	4.C.1. Grassland remaining grassland	Table4	Net CO_2 emissions/removals	2022	–41.75	129.49	–171.24	kt CO_2 eq	–132.2	–171.24
I.1.20.	4.E.2. Land converted to settlements	Table4	Net CO_2 emissions/removals	2022	161.77	225.14	–63.36	kt CO_2 eq	–28.1	–63.36
I.1.21.	4.F.2. Land converted to other land	Table4	Net CO_2 emissions/removals	2022	95.93	125.29	–29.36	kt CO_2 eq	–23.4	–29.36

Table I.2
Findings on completeness

ID#	Sector, category or gas	CRT	Gas	Inventory year	Notation key	Finding type
I.2.1.	5.A.2. Unmanaged waste disposal sites	Table5	CH_4	1990	NE	Reporting of “NE” detected
I.2.2.	5.A.2. Unmanaged waste disposal sites	Table5	Total GHG emissions	1990	NE	Reporting of “NE” detected
I.2.3.	5.A.2. Unmanaged waste disposal sites	Table5	CH_4	2023	NE	Reporting of “NE” detected
I.2.4.	5.A.2. Unmanaged waste disposal sites	Table5	Total GHG emissions	2023	NE	Reporting of “NE” detected
I.2.5.	Unspecified mix of HFCs and PFCs	Table10s6	–	1990	NA, NO	Gas or sector not reported
I.2.6.	Unspecified mix of HFCs and PFCs	Table10s6	–	2023	NA, NO	Gas or sector not reported
I.2.7.	NF_3	Table10s6	–	1990	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.	1.B.2.c. Venting and flaring	Table1	N_2O	2022	NA, NO	0.00
I.3.2.	4.A.2. Land converted to forest land	Table4	CH_4	1990	IE	IE, NO
I.3.3.	4.B.1. Cropland remaining cropland	Table4	CH_4	1990	NO	NE, NO
I.3.4.	4.B.2. Land converted to cropland	Table4	CH_4	1990	NO	IE, NO
I.3.5.	4.D.2. Land converted to wetlands	Table4	CH_4	1990	NO	IE, NO

ID#	Category	CRT	Gas	Inventory year	Notation key reported in latest submission (2025)	Notation key reported in previous submission (2024)
I.3.6.	4.A.2. Land converted to forest land	Table4	CH_4	2022	IE	IE, NO
I.3.7.	4.B.1. Cropland remaining cropland	Table4	CH_4	2022	NO	NE, NO
I.3.8.	4.B.2. Land converted to cropland	Table4	CH_4	2022	NO	IE, NO
I.3.9.	4.D.2. Land converted to wetlands	Table4	CH_4	2022	NO	IE, NO
I.3.10.	5.A.2. Unmanaged waste disposal sites	Table5	CH_4	1990	NE	NO
I.3.11.	5.A.2. Unmanaged waste disposal sites	Table5	Total GHG emissions	1990	NE	NO
I.3.12.	5.A.3. Uncategorized waste disposal sites	Table5	CH_4	1990	IE	NO
I.3.13.	5.A.3. Uncategorized waste disposal sites	Table5	Total GHG emissions	1990	IE	NO
I.3.14.	5.D.2. Industrial wastewater	Table5	N_2O	1990	NA	IE
I.3.15.	5.D.2. Industrial wastewater	Table5	Total GHG emissions	1990	IE, NA	IE
I.3.16.	5.A.2. Unmanaged waste disposal sites	Table5	CH_4	2022	NE	NO
I.3.17.	5.A.2. Unmanaged waste disposal sites	Table5	Total GHG emissions	2022	NE	NO
I.3.18.	5.A.3. Uncategorized waste disposal sites	Table5	CH_4	2022	IE	NO
I.3.19.	5.A.3. Uncategorized waste disposal sites	Table5	Total GHG emissions	2022	IE	NO
I.3.20.	5.D.2. Industrial wastewater	Table5	CH_4	2022	NO	IE
I.3.21.	5.D.2. Industrial wastewater	Table5	N_2O	2022	NA	IE
I.3.22.	5.D.2. Industrial wastewater	Table5	Total GHG emissions	2022	NA, NO	IE

Table I.4
Differences between the sectoral and reference approaches for the latest reported year

ID#	CRT table	Fuel type	Description	Difference between reference and sectoral approaches (%)
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.b. Petroleum refining	Table1	CO_2	2014	2015	916.33	436.12	–480.21	kt	–480.21	–52.4	–4.1
I.5.2.	1.A.3.b. Road transportation	Table1	CO_2	2019	2020	14 471.54	13 219.90	–1 251.64	kt	–1 251.64	–8.6	–3.1
I.5.3.	1.A.3.b. Road transportation	Table1	N_2O	2003	2004	0.67	0.34	–0.33	kt	–87.89	–49.6	–4.9
I.5.4.	1.A.3.e. Other transportation	Table1	CO_2	2001	2002	20.25	68.10	47.85	kt	47.85	236.4	3.1
I.5.5.	1.D.1.a. Aviation	Table1	CO_2	2019	2020	5 692.68	2 052.54	–3 640.14	kt	–3 640.14	–63.9	–4.8

ID#	*Category*	*CRT*	*Gas*	*Year 1*	*Year 2*	*Value 1*	*Value 2*	*Difference*	*Unit*	*Difference (CO_2 eq)*	*Difference (%)*	*Z-score*
I.5.6.	1.D.1.a. Aviation	Table1	N_2O	2019	2020	0.16	0.06	–0.10	kt	–26.50	–63.9	–4.8
I.5.7.	2.B.10. Other	Table2(I)	N_2O	2021	2022	1.47	0.00	–1.46	kt	–387.88	–99.7	–4.2
I.5.8.	2.C.3. Aluminium production	Table2(I)	PFCs	1992	1993	72.03	30.30	–41.73	kt CO_2 eq	–41.73	–57.9	–3.1
I.5.9.	2.E.1. Integrated circuit or semiconductor	Table2(I)	PFCs	1999	2000	3.01	25.33	22.32	kt CO_2 eq	22.32	740.2	3.4
I.5.10.	2.E.1. Integrated circuit or semiconductor	Table2(I)	PFCs	2000	2001	25.33	5.09	–20.24	kt CO_2 eq	–20.24	–79.9	–3.1
I.5.11.	2.E.1. Integrated circuit or semiconductor	Table2(I)	SF_6	2008	2009	0.00	0.00	0.00	kt	–30.97	–80.9	–3.0
I.5.12.	2.F.2. Foam blowing agents	Table2(I)	HFCs	1994	1995	3.77	104.67	100.89	kt CO_2 eq	100.89	2 673.1	4.7
I.5.13.	2.G.2. SF_6 and PFCs from other product use	Table2(I)	PFCs	2002	2003	4.84	43.11	38.27	kt CO_2 eq	38.27	791.1	3.3
I.5.14.	2.C.3. Aluminium production	Table2(II)	CF_4	1992	1993	9.16	3.85	–5.31	t	–35.19	–57.9	–3.1
I.5.15.	2.E.1. Integrated circuit or semiconductor	Table2(II)	SF_6	2008	2009	1.63	0.31	–1.32	t	–30.97	–80.9	–3.0
I.5.16.	2.F.2. Foam blowing agents	Table2(II)	HFC-134a	1994	1995	2.90	76.95	74.05	t	96.26	2 550.4	4.5
I.5.17.	3.A.1. Cattle	Table3	CH_4	2007	2008	125.33	129.24	3.91	kt	109.40	3.1	3.1
I.5.18.	3.A.1.a. Other	Table3	CH_4	2007	2008	125.33	129.24	3.91	kt	109.40	3.1	3.1
I.5.19.	3.B.3. Swine	Table3	CH_4	1995	1996	8.75	7.67	–1.08	kt	–30.28	–12.4	–3.3
I.5.20.	4.A.1. Forest land remaining forest land	Table4	Net CO_2 emissions/removals	1999	2000	–1 903.29	4 439.88	6 343.18	kt CO_2 eq	6 343.18	–333.3	3.1
I.5.21.	4.A.2. Land converted to forest land	Table4	Net CO_2 emissions/removals	1999	2000	–862.24	–721.83	140.41	kt CO_2 eq	140.41	–16.3	3.6
I.5.22.	4.C.1. Grassland remaining grassland	Table4	Net CO_2 emissions/removals	2015	2016	1 467.12	–1 056.37	–2 523.49	kt CO_2 eq	–2 523.49	–172.0	–3.0
I.5.23.	5.A.1. Managed waste disposal sites	Table5	CH_4	1990	1991	30.79	27.10	–3.69	kt	–103.33	–12.0	–3.9

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.d. Transport refrigeration – HFC-32	Table2(II).B-Hs2	Disposal loss factor	%	14.000	Below range
I.6.2.	3.A.4.f. Mules and asses	Table3.A	CH_4	kg CH_4/head/year	6.182	Below range
I.6.3.	3.B.4.c. Deer	Table3.B(a)	CH_4	kg CH_4/head/year	2.899	Above range
I.6.4.	3.B.4.h. Other	Table3.B(a)	CH_4	kg CH_4/head/year	1.129	Above range
I.6.5.	3.B.4.h.i. Rabbit	Table3.B(a)	CH_4	kg CH_4/head/year	0.783	Above range
I.6.6.	3.B.5. Indirect N_2O emissions	Table3.B(b)	N_2O	kg N_2O-N/kg N	0.026	Above range
I.6.7.	3.D.2.a. Atmospheric deposition	Table3.D	N_2O	kg N_2O-N/kg N	0.026	Above range
I.6.8.	5.D.1. Domestic wastewater	Table5.D	N_2O	kg N_2O-N/kg N	0.057	Above range

Table I.7
Identification of new key categories

ID#	*New key category*	*Gas*	*Criteria*	*Inventory year*
I.7.1.	4.C.1 Grassland remaining grassland	CO_2	Level	2023
I.7.2.	5.D Wastewater treatment and discharge	CH_4	Level	2023
I.7.3.	5.D Wastewater treatment and discharge	CH_4	Trend	2023