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

Summary

This report presents the results of the simplified review of the 2025 national inventory report of Iceland, 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
CF_4	tetrafluoromethane
CH_4	methane
CO_2	carbon dioxide
CO_2 eq	carbon dioxide equivalent
CRT	common reporting table
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

I. Introduction

1. This report covers the simplified review of the NIR of Iceland 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 Iceland,[3] which did not provide any comments on individual findings. In addition, Iceland did not provide any general comments on the report.

3. The secretariat conducted the simplified review of Iceland'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 Iceland'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, 14 April 2025	
	2024 submission: CRTs, 20 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 (**2.32 kt CO_2 eq** for 2023)[a]	
	Recalculations for 1990 (the reference year for the Party's nationally determined contribution) and 2022 since the previous submission	See table I.1
Completeness	Detection of notation key "NE", or of missing gases or sectors in CRT 10 emission trends summary	See table I.2
Notation keys	Changes in notation keys reported for 1990 and 2022 since the previous submission	See table I.3
Sectoral and reference approaches	Difference in estimated energy consumption or CO_2 emissions, by fuel type, of more than 5 per cent between the reference and sectoral approaches for the latest reported year (2023)	See table I.4
Time-series consistency	The time series of emissions is assessed by calculating inter-annual changes for each category and gas and converting them to CO_2 eq. Inter-annual changes exceeding the significance threshold are evaluated using the z-score method,[b] where outliers	See table I.5

[1] Decision 18/CMA.1, annex.
[2] Contained in paras. 15–19 of the conclusions and recommendations from the 2023 joint meeting of lead reviewers, available at https://unfccc.int/documents/627213.
[3] As per para. 163 of the MPGs.
[4] As per para. 155 of the MPGs.
[5] As per para. 155 of the MPGs.

Area of review	*Description*	*Assessment*
	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 Iceland'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.d. Other	Table1	CO_2	2022	173.92	186.03	–12.12	kt	–6.5	–12.12
I.1.2.	1.D.1.a. Aviation	Table1	CO_2	2022	848.29	730.88	117.41	kt	16.1	117.41
I.1.3.	3.A.1.a. Other	Table3	CH_4	1990	5.01	5.12	–0.11	kt	–2.1	–3.02
I.1.4.	3.A.4. Other livestock	Table3	CH_4	1990	0.99	1.35	–0.36	kt	–26.7	–10.10
I.1.5.	3.B.4. Other livestock	Table3	CH_4	1990	0.24	0.73	–0.49	kt	–67.0	–13.68
I.1.6.	3.D.1.f. Cultivation of organic soils (i.e. histosols)	Table3	N_2O	1990	0.51	0.17	0.33	kt	195.5	88.71
I.1.7.	3.A.1.a. Other	Table3	CH_4	2022	5.01	5.14	–0.12	kt	–2.4	–3.48
I.1.8.	3.A.4. Other livestock	Table3	CH_4	2022	0.96	1.29	–0.34	kt	–26.0	–9.42
I.1.9.	3.B.4. Other livestock	Table3	CH_4	2022	0.09	0.19	–0.10	kt	–50.6	–2.72
I.1.10.	3.D.1.f. Cultivation of organic soils (i.e. histosols)	Table3	N_2O	2022	0.74	0.26	0.48	kt	187.7	128.40
I.1.11.	4.B.1. Cropland remaining cropland	Table4	Net CO_2 emissions/removals	1990	965.37	753.79	211.58	kt CO_2 eq	28.1	211.58
I.1.12.	4.B.1. Cropland remaining cropland	Table4	CH_4	1990	1.94	1.54	0.40	kt	26.3	11.33
I.1.13.	4.B.2. Land converted to cropland	Table4	Net CO_2 emissions/removals	1990	483.54	368.88	114.66	kt CO_2 eq	31.1	114.66
I.1.14.	4.B.2. Land converted to cropland	Table4	CH_4	1990	0.91	0.69	0.21	kt	31.0	5.99
I.1.15.	4.C.1. Grassland remaining grassland	Table4	Net CO_2 emissions/removals	1990	3 591.90	3 445.37	146.53	kt CO_2 eq	4.3	146.53
I.1.16.	4.C.1. Grassland remaining grassland	Table4	CH_4	1990	10.03	9.62	0.41	kt	4.3	11.46
I.1.17.	4.C.2. Land converted to grassland	Table4	Net CO_2 emissions/removals	1990	1 768.72	1 821.40	–52.67	kt CO_2 eq	–2.9	–52.67
I.1.18.	4.C.2. Land converted to grassland	Table4	CH_4	1990	5.97	6.12	–0.15	kt	–2.5	–4.22
I.1.19.	4.D.1. Wetlands remaining wetlands	Table4	Net CO_2 emissions/removals	1990	–408.75	–429.11	20.36	kt CO_2 eq	4.7	20.36
I.1.20.	4.D.1. Wetlands remaining wetlands	Table4	CH_4	1990	43.38	45.54	–2.16	kt	–4.7	–60.43

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.1.21.	4.E.2. Land converted to settlements	Table4	Net CO_2 emissions/removals	1990	26.28	20.92	5.36	kt CO_2 eq	25.6	5.36
I.1.22.	4.A.2. Land converted to forest land	Table4	Net CO_2 emissions/removals	2022	–404.82	–376.18	–28.64	kt CO_2 eq	–7.6	–28.64
I.1.23.	4.B.1. Cropland remaining cropland	Table4	Net CO_2 emissions/removals	2022	1 395.15	1 073.05	322.10	kt CO_2 eq	30.0	322.10
I.1.24.	4.B.1. Cropland remaining cropland	Table4	CH_4	2022	2.81	2.19	0.62	kt	28.4	17.41
I.1.25.	4.B.2. Land converted to cropland	Table4	Net CO_2 emissions/removals	2022	378.22	289.57	88.66	kt CO_2 eq	30.6	88.66
I.1.26.	4.B.2. Land converted to cropland	Table4	CH_4	2022	0.60	0.46	0.14	kt	30.7	3.97
I.1.27.	4.C.2. Land converted to grassland	Table4	Net CO_2 emissions/removals	2022	–310.81	–266.63	–44.18	kt CO_2 eq	–16.6	–44.18
I.1.28.	4.C.2. Land converted to grassland	Table4	CH_4	2022	1.01	1.15	–0.14	kt	–11.8	–3.79
I.1.29.	4.D.1. Wetlands remaining wetlands	Table4	Net CO_2 emissions/removals	2022	–350.14	–421.12	70.98	kt CO_2 eq	16.9	70.98
I.1.30.	4.D.1. Wetlands remaining wetlands	Table4	CH_4	2022	37.50	45.03	–7.52	kt	–16.7	–210.65
I.1.31.	4.E.2. Land converted to settlements	Table4	Net CO_2 emissions/removals	2022	34.59	8.80	25.79	kt CO_2 eq	293.3	25.79
I.1.32.	5.A.1. Managed waste disposal sites	Table5	CH_4	2022	7.67	7.15	0.52	kt	7.2	14.51
I.1.33.	5.C.1. Waste incineration	Table5	CO_2	2022	6.46	9.02	–2.56	kt	–28.4	–2.56
I.1.34.	5.D.2. Industrial wastewater	Table5	CH_4	2022	0.36	0.27	0.09	kt	34.7	2.60

Table I.2
Findings on completeness

ID#	Sector, category or gas	CRT	Gas	Inventory year	Notation key	Finding type
I.2.1.	1.C.1. Transport of CO_2	Table1	CO_2	2023	NA, NE, NO	Reporting of “NE” detected
I.2.2.	1.C.1. Transport of CO_2	Table1	Total GHG emissions	2023	NA, NE, NO	Reporting of “NE” detected
I.2.3.	1.C.2. Injection and storage	Table1	CO_2	2023	NE	Reporting of “NE” detected
I.2.4.	1.C.2. Injection and storage	Table1	Total GHG emissions	2023	NE	Reporting of “NE” detected
I.2.5.	4.D.2. Land converted to wetlands	Table4	N_2O	1990	NA, NE, NO	Reporting of “NE” detected
I.2.6.	4.E.2. Land converted to settlements	Table4	N_2O	1990	IE, NA, NE, NO	Reporting of “NE” detected
I.2.7.	4.D.2. Land converted to wetlands	Table4	N_2O	2023	NA, NE, NO	Reporting of “NE” detected
I.2.8.	Unspecified mix of HFCs and PFCs	Table10s6	–	1990	NO	Gas or sector not reported

ID#	Sector, category or gas	CRT	Gas	Inventory year	Notation key	Finding type
I.2.9.	Unspecified mix of HFCs and PFCs	Table10s6	–	2023	NO	Gas or sector not reported
I.2.10.	NF_3	Table10s6	–	1990	NO	Gas or sector not reported
I.2.11.	NF_3	Table10s6	–	2023	NO	Gas or sector not reported
I.2.12.	6. Other	Table10s6	–	1990	NO	Gas or sector not reported
I.2.13.	6. Other	Table10s6	–	2023	NO	Gas or sector not reported

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

ID#	Category	CRT	Gas	Inventory year	Notation key reported in latest submission (2025)	Notation key reported in previous submission (2024)
I.3.1.	1.C.1. Transport of CO_2	Table1	CO_2	2022	NA, NE, NO	NA, NO
I.3.2.	1.C.1. Transport of CO_2	Table1	Total GHG emissions	2022	NA, NE, NO	NA, NO
I.3.3.	1.C.2. Injection and storage	Table1	CO_2	2022	NE	IE
I.3.4.	1.C.2. Injection and storage	Table1	Total GHG emissions	2022	NE	IE
I.3.5.	4.E.1. Settlements remaining settlements	Table4	N_2O	1990	IE, NA, NO	IE, NA, NE, NO
I.3.6.	4.E.1. Settlements remaining settlements	Table4	Total GHG emissions/removals	1990	IE, NA, NO	IE, NA, NE, NO
I.3.7.	4.H. Other (please specify)	Table4	Net CO_2 emissions/removals	1990	NA	IE
I.3.8.	4.H. Other (please specify)	Table4	CH_4	1990	NA	IE
I.3.9.	4.H. Other (please specify)	Table4	N_2O	1990	NA	IE
I.3.10.	4.H. Other (please specify)	Table4	Total GHG emissions/removals	1990	NA	IE
I.3.11.	4.E.1. Settlements remaining settlements	Table4	N_2O	2022	IE, NA, NO	IE, NA, NE, NO
I.3.12.	4.E.1. Settlements remaining settlements	Table4	Total GHG emissions/removals	2022	IE, NA, NO	IE, NA, NE, NO
I.3.13.	4.H. Other (please specify)	Table4	Net CO_2 emissions/removals	2022	NA	IE
I.3.14.	4.H. Other (please specify)	Table4	CH_4	2022	NA	IE
I.3.15.	4.H. Other (please specify)	Table4	N_2O	2022	NA	IE
I.3.16.	4.H. Other (please specify)	Table4	Total GHG emissions/removals	2022	NA	IE

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

ID#	CRT table	Fuel type	Description	Difference between reference and sectoral approaches (%)
I.4.1.	Table1.A(c)	Liquid fuels (excluding international bunkers)	Energy consumption	5.89
I.4.2.	Table1.A(c)	Liquid fuels (excluding international bunkers)	CO_2 emissions	5.00

ID#	*CRT table*	*Fuel type*	*Description*	*Difference between reference and sectoral approaches (%)*
I.4.3.	Table1.A(c)	Other fossil fuels	Energy consumption	–100.00
I.4.4.	Table1.A(c)	Other fossil fuels	CO_2 emissions	–100.00

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	2006	2007	9.03	24.94	15.91	kt	15.91	176.2	3.5
I.5.2.	1.A.1.a. Public electricity and heat production	Table1	CO_2	2007	2008	24.94	10.16	–14.78	kt	–14.78	–59.3	–3.3
I.5.3.	1.A.3.a. Domestic aviation	Table1	CO_2	2019	2020	27.76	13.15	–14.61	kt	–14.61	–52.6	–3.6
I.5.4.	1.A.3.b. Road transportation	Table1	CO_2	2019	2020	948.49	823.29	–125.20	kt	–125.20	–13.2	–3.3
I.5.5.	1.A.3.b. Road transportation	Table1	N_2O	2005	2006	0.04	0.03	–0.01	kt	–3.97	–36.3	–4.9
I.5.6.	1.B.2.d. Other	Table1	CH_4	2009	2010	0.09	0.18	0.09	kt	2.55	98.9	3.7
I.5.7.	1.D.1.a. Aviation	Table1	CO_2	2019	2020	956.38	261.36	–695.02	kt	–695.02	–72.7	–4.1
I.5.8.	1.D.1.a. Aviation	Table1	N_2O	2019	2020	0.03	0.01	–0.02	kt	–5.15	–72.7	–4.1
I.5.9.	1.D.1.b. Navigation	Table1	CO_2	2021	2022	127.25	284.45	157.20	kt	157.20	123.5	3.2
I.5.10.	1.D.3. CO_2 emissions from biomass	Table1	CO_2	2021	2022	89.30	58.51	–30.80	kt	–30.80	–34.5	–3.8
I.5.11.	2.C.3. Aluminium production	Table2(I)	CO_2	2007	2008	692.98	1 186.82	493.84	kt	493.84	71.3	5.0
I.5.12.	2.C.3. Aluminium production	Table2(I)	PFCs	2005	2006	27.66	353.22	325.56	kt CO_2 eq	325.56	1 177.0	3.9
I.5.13.	2.C.3. Aluminium production	Table2(II)	CF_4	2005	2006	3.47	44.30	40.83	t	270.72	1 177.0	3.9
I.5.14.	2.C.3. Aluminium production	Table2(II)	C_2F_6	2005	2006	0.42	5.36	4.94	t	54.84	1 177.0	3.9
I.5.15.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-134a	2021	2022	20.16	15.13	–5.04	t	–6.55	–25.0	–3.1
I.5.16.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-134a	2022	2023	15.13	10.22	–4.91	t	–6.38	–32.4	–3.0
I.5.17.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-143a	2020	2021	21.73	17.05	–4.68	t	–22.48	–21.5	–3.0
I.5.18.	3.A.4. Other livestock	Table3	CH_4	2017	2018	1.05	0.95	–0.10	kt	–2.77	–9.4	–3.4
I.5.19.	3.D.1.f. Cultivation of organic soils (i.e. histosols)	Table3	N_2O	1990	1991	0.51	0.54	0.03	kt	8.06	6.0	3.1
I.5.20.	3.G. Liming	Table3	CO_2	2007	2008	1.04	3.67	2.64	kt	2.64	254.3	3.0
I.5.21.	4.A.1. Forest land remaining forest land	Table4	Net CO_2 emissions/removals	2006	2007	–10.37	–119.96	–109.59	kt CO_2 eq	–109.59	1 056.8	–5.5
I.5.22.	4.C.2. Land converted to grassland	Table4	CH_4	1990	1991	5.97	5.05	–0.92	kt	–25.66	–15.4	–3.0
I.5.23.	4.D.2. Land converted to wetlands	Table4	Net CO_2 emissions/removals	1990	1991	0.51	4.63	4.12	kt CO_2 eq	4.12	806.8	3.7
I.5.24.	4.D.2. Land converted to wetlands	Table4	Net CO_2 emissions/removals	2010	2011	5.77	1.60	–4.17	kt CO_2 eq	–4.17	–72.3	–3.7
I.5.25.	4.D.2. Land converted to wetlands	Table4	CH_4	1990	1991	0.02	0.19	0.17	kt	4.68	813.4	3.5

ID#	Category	CRT	Gas	Year 1	Year 2	Value 1	Value 2	Difference	Unit	Difference (CO_2 eq)	Difference (%)	Z-score
I.5.26.	4.D.2. Land converted to wetlands	Table4	CH_4	2010	2011	0.36	0.20	–0.16	kt	–4.45	–44.0	–3.6
I.5.27.	4.E.2. Land converted to settlements	Table4	Net CO_2 emissions/removals	2009	2010	58.96	42.50	–16.46	kt CO_2 eq	–16.46	–27.9	–4.3
I.5.28.	5.A.1. Managed waste disposal sites	Table5	CH_4	2003	2004	8.06	10.33	2.27	kt	63.64	28.2	3.2

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.	3.A.4. Other livestock	Table3.A	CH_4	kg CH_4/head/year	1.017	Above range
I.6.2.	3.A.4.e. Horses	Table3.A	CH_4	kg CH_4/head/year	13.099	Below range
I.6.3.	3.B.4.h. Other	Table3.B(a)	CH_4	kg CH_4/head/year	0.673	Above range
I.6.4.	3.D.1.f. Cultivation of organic soils (i.e. histosols)	Table3.D	N_2O	kg N_2O-N/kg N	1.435	Below range
I.6.5.	4(II).D.1. Wetlands remaining wetlands – total organic soils	Table4(II)	CH_4 per area	kg CH_4/ha	182.334	Above range
I.6.6.	4(II).D.1.c. Other wetlands remaining other wetlands – total organic soils	Table4(II)	CH_4 per area	kg CH_4/ha	182.667	Above range

Table I.7
Identification of new key categories

ID#	New key category	Gas	Criteria	Inventory year
I.7.1.	1.A.3.d. Domestic navigation – liquid fuels	CO_2	Trend	2023