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

Summary

This report presents the results of the simplified review of the 2025 national inventory report of Norway, 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_2O	nitrous oxide
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 Norway 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 Norway,[3] which did not provide any comments on individual findings. Norway provided general comments on the report (see chap. II.B below).

3. The secretariat conducted the simplified review of Norway'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 Norway'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 March 2025	
	2024 submission: CRTs, 22 November 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 (**23.34 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 provided general comments,[6] which are reported in the box below.

> The recalculations in table I.1 are described in chapter 10.1 of Norway's 2025 National Inventory Document.
>
> The use of the notation key NE as shown in table I.2 and the use of the notation key IE are explained in CRT 9.
>
> Norway is aware of the difference between the reference approach and the sectoral approach as shown in table I.4. The reasons for the differences are described in chapter 3.2.1 of Norway's 2025 National Inventory Document.

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

Annex

Findings of the initial assessment of Norway'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.2.e. Food processing, beverages and tobacco	Table1	CO_2	2022	327.91	298.60	29.31	kt	9.8	29.31
I.1.2.	1.A.2.g. Other	Table1	CO_2	2022	1 190.39	1 239.52	–49.13	kt	–4.0	–49.13
I.1.3.	1.A.4.a. Commercial/institutional	Table1	CO_2	2022	1 011.75	1 114.24	–102.49	kt	–9.2	–102.49
I.1.4.	1.A.5.b. Mobile	Table1	CO_2	2022	228.40	90.23	138.17	kt	153.1	138.17
I.1.5.	1.B.2.c. Venting and flaring	Table1	CO_2	2022	797.71	766.37	31.34	kt	4.1	31.34
I.1.6.	2.G.3. N_2O from product uses	Table2(I)	N_2O	2022	0.15	0.05	0.10	kt	182.6	26.45
I.1.7.	3.A.2. Sheep	Table3	CH_4	1990	17.60	15.39	2.21	kt	14.3	61.83
I.1.8.	3.A.2. Sheep	Table3	CH_4	2022	17.78	15.40	2.38	kt	15.5	66.72
I.1.9.	4.A.1. Forest land remaining forest land	Table4	Net CO_2 emissions/removals	1990	–13 124.45	–14 288.45	1 164.00	kt CO_2 eq	–8.1	1 164.00
I.1.10.	4.A.2. Land converted to forest land	Table4	Net CO_2 emissions/removals	1990	–443.08	–606.21	163.13	kt CO_2 eq	–26.9	163.13
I.1.11.	4.E.2. Land converted to settlements	Table4	Net CO_2 emissions/removals	1990	1 498.06	1 591.63	–93.57	kt CO_2 eq	–5.9	–93.57
I.1.12.	4.A.1. Forest land remaining forest land	Table4	Net CO_2 emissions/removals	2022	–12 301.79	–16 947.00	4 645.21	kt CO_2 eq	–27.4	4 645.21
I.1.13.	4.A.2. Land converted to forest land	Table4	Net CO_2 emissions/removals	2022	–806.39	–1 122.42	316.03	kt CO_2 eq	–28.2	316.03
I.1.14.	4.B.1. Cropland remaining cropland	Table4	Net CO_2 emissions/removals	2022	1 720.65	1 762.96	–42.31	kt CO_2 eq	–2.4	–42.31
I.1.15.	4.B.2. Land converted to cropland	Table4	Net CO_2 emissions/removals	2022	505.61	633.30	–127.69	kt CO_2 eq	–20.2	–127.69
I.1.16.	4.C.1. Grassland remaining grassland	Table4	Net CO_2 emissions/removals	2022	–426.68	–483.94	57.26	kt CO_2 eq	–11.8	57.26

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.C.2. Land converted to grassland	Table4	Net CO_2 emissions/removals	2022	494.66	387.84	106.82	kt CO_2 eq	27.5	106.82
I.1.18.	4.D.2. Land converted to wetlands	Table4	Net CO_2 emissions/removals	2022	101.37	66.09	35.27	kt CO_2 eq	53.4	35.27
I.1.19.	4.E.2. Land converted to settlements	Table4	Net CO_2 emissions/removals	2022	1 790.91	1 581.67	209.25	kt CO_2 eq	13.2	209.25

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	NE, NO	Reporting of “NE” detected
I.2.2.	1.C.1. Transport of CO_2	Table1	Total GHG emissions	2023	NE, NO	Reporting of “NE” detected
I.2.3.	4.C.1. Grassland remaining grassland	Table4	N_2O	1990	IE, NE, NO	Reporting of “NE” detected
I.2.4.	4.C.2. Land converted to grassland	Table4	CH_4	1990	IE, NE, NO	Reporting of “NE” detected
I.2.5.	4.C.2. Land converted to grassland	Table4	N_2O	1990	IE, NE, NO	Reporting of “NE” detected
I.2.6.	4.C.2. Land converted to grassland	Table4	N_2O	2023	IE, NE, NO	Reporting of “NE” detected
I.2.7.	5.C.2. Open burning of waste	Table5	CO_2	1990	NE, NO	Reporting of “NE” detected
I.2.8.	5.C.2. Open burning of waste	Table5	CH_4	1990	NE, NO	Reporting of “NE” detected
I.2.9.	5.C.2. Open burning of waste	Table5	N_2O	1990	NE, NO	Reporting of “NE” detected
I.2.10.	5.C.2. Open burning of waste	Table5	Total GHG emissions	1990	NE, NO	Reporting of “NE” detected
I.2.11.	5.C.2. Open burning of waste	Table5	CO_2	2023	NE, NO	Reporting of “NE” detected
I.2.12.	5.C.2. Open burning of waste	Table5	CH_4	2023	NE, NO	Reporting of “NE” detected
I.2.13.	5.C.2. Open burning of waste	Table5	N_2O	2023	NE, NO	Reporting of “NE” detected
I.2.14.	5.C.2. Open burning of waste	Table5	Total GHG emissions	2023	NE, NO	Reporting of “NE” detected
I.2.15.	Unspecified mix of HFCs and PFCs	Table10s6	–	1990	NO	Gas or sector not reported
I.2.16.	Unspecified mix of HFCs and PFCs	Table10s6	–	2023	NO	Gas or sector not reported
I.2.17.	NF_3	Table10s6	–	1990	NO	Gas or sector not reported
I.2.18.	NF_3	Table10s6	–	2023	NO	Gas or sector not reported
I.2.19.	6. Other	Table10s6	–	1990	NO	Gas or sector not reported
I.2.20.	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.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-134	2022	NO	0.40
I.3.2.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-143	2022	NO	0.19

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)	Solid fuels (excluding international bunkers)	Energy consumption	43.1
I.4.2.	Table1.A(c)	Solid fuels (excluding international bunkers)	CO_2 emissions	50.8
I.4.3.	Table1.A(c)	Other fossil fuels	Energy consumption	–45.3
I.4.4.	Table1.A(c)	Other fossil fuels	CO_2 emissions	–47.7

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	2008	2009	633.98	1 880.96	1 246.98	kt	1 246.98	196.7	4.6
I.5.2.	1.A.2.d. Pulp, paper and print	Table1	CO_2	1993	1994	295.41	653.92	358.51	kt	358.51	121.4	3.5
I.5.3.	1.A.3.a. Domestic aviation	Table1	CO_2	2019	2020	1 118.36	800.74	–317.62	kt	–317.62	–28.4	–3.5
I.5.4.	1.A.3.d. Domestic navigation	Table1	CH_4	2021	2022	3.11	4.70	1.59	kt	44.64	51.3	3.3
I.5.5.	1.A.5.b. Mobile	Table1	CO_2	2002	2003	487.64	192.66	–294.97	kt	–294.97	–60.5	–3.2
I.5.6.	1.B.2.c. Venting and flaring	Table1	CO_2	2006	2007	1 296.74	2 607.62	1 310.89	kt	1 310.89	101.1	4.0
I.5.7.	1.B.2.c. Venting and flaring	Table1	CH_4	2006	2007	10.03	13.65	3.62	kt	101.39	36.1	3.4
I.5.8.	1.D.1.a. Aviation	Table1	CO_2	2019	2020	1 751.01	584.78	–1 166.24	kt	–1 166.24	–66.6	–4.4
I.5.9.	1.D.1.a. Aviation	Table1	CO_2	2021	2022	511.66	1 368.92	857.26	kt	857.26	167.5	3.0
I.5.10.	1.D.1.b. Navigation	Table1	CH_4	2014	2015	0.08	1.40	1.32	kt	36.85	1 581.1	4.4
I.5.11.	2.A.2. Lime production	Table2(I)	CO_2	2009	2010	138.34	248.15	109.81	kt	109.81	79.4	4.2
I.5.12.	2.A.4. Other process uses of carbonates	Table2(I)	CO_2	2012	2013	44.49	102.62	58.12	kt	58.12	130.6	3.4
I.5.13.	2.B.5. Carbide production	Table2(I)	CO_2	2002	2003	206.79	95.61	–111.18	kt	–111.18	–53.8	–3.7
I.5.14.	2.B.8. Petrochemical and carbon black production	Table2(I)	CO_2	1996	1997	570.70	882.43	311.73	kt	311.73	54.6	3.8
I.5.15.	2.C.3. Aluminium production	Table2(I)	CO_2	2008	2009	2 230.82	1 790.25	–440.57	kt	–440.57	–19.7	–4.1

ID#	*Category*	*CRT*	*Gas*	*Year 1*	*Year 2*	*Value 1*	*Value 2*	*Difference*	*Unit*	*Difference (CO_2 eq)*	*Difference (%)*	*Z-score*
I.5.16.	2.C.3. Aluminium production	Table2(I)	PFCs	1991	1992	3 106.01	2 369.31	–736.70	kt CO_2 eq	–736.70	–23.7	–3.4
I.5.17.	2.C.4. Magnesium production	Table2(I)	CO_2	2001	2002	164.36	0.00	–164.36	kt	–164.36	–100.0	–3.0
I.5.18.	2.C.4. Magnesium production	Table2(I)	SF_6	1991	1992	0.08	0.02	–0.06	kt	–1 431.62	–72.1	–3.4
I.5.19.	2.D.3. Other	Table2(I)	CO_2	2019	2020	107.20	144.02	36.82	kt	36.82	34.3	3.2
I.5.20.	2.G.1. Electrical equipment	Table2(I)	SF_6	2002	2003	0.00	0.00	0.00	kt	–40.76	–50.0	–3.6
I.5.21.	2.G.2. SF_6 and PFCs from other product use	Table2(I)	SF_6	1996	1997	0.00	0.00	0.00	kt	37.89	332.6	3.5
I.5.22.	2.G.2. SF_6 and PFCs from other product use	Table2(I)	SF_6	2001	2002	0.00	0.00	0.00	kt	–39.74	–75.0	–3.9
I.5.23.	2.C.3. Aluminium production	Table2(II)	CF_4	1991	1992	416.54	321.60	–94.94	t	–629.45	–22.8	–3.3
I.5.24.	2.C.3. Aluminium production	Table2(II)	C_2F_6	1991	1992	31.02	21.36	–9.66	t	–107.24	–31.1	–3.9
I.5.25.	2.C.4. Magnesium production	Table2(II)	SF_6	1991	1992	84.50	23.58	–60.92	t	–1 431.62	–72.1	–3.4
I.5.26.	2.F.1. Refrigeration and air conditioning	Table2(II)	HFC-134a	2021	2022	312.12	274.32	–37.80	t	–49.14	–12.1	–3.5
I.5.27.	2.G.1. Electrical equipment	Table2(II)	SF_6	2002	2003	3.47	1.74	–1.73	t	–40.76	–50.0	–3.6
I.5.28.	2.G.2. SF_6 and PFCs from other product use	Table2(II)	SF_6	1996	1997	0.48	2.10	1.61	t	37.89	332.6	3.5
I.5.29.	2.G.2. SF_6 and PFCs from other product use	Table2(II)	SF_6	2001	2002	2.25	0.56	–1.69	t	–39.74	–75.0	–3.9
I.5.30.	3.A.1. Cattle	Table3	CH_4	1999	2000	73.06	68.57	–4.49	kt	–125.70	–6.1	–3.4
I.5.31.	3.A.1.a. Other	Table3	CH_4	1999	2000	73.06	68.57	–4.49	kt	–125.70	–6.1	–3.4
I.5.32.	4.B.1. Cropland remaining cropland	Table4	Net CO_2 emissions/removals	1999	2000	1 577.68	1 606.39	28.72	kt CO_2 eq	28.72	1.8	3.1
I.5.33.	4.B.2. Land converted to cropland	Table4	Net CO_2 emissions/removals	2012	2013	519.55	724.66	205.11	kt CO_2 eq	205.11	39.5	3.3
I.5.34.	4.D.1. Wetlands remaining wetlands	Table4	Net CO_2 emissions/removals	2012	2013	201.25	241.56	40.32	kt CO_2 eq	40.32	20.0	3.2
I.5.35.	4.D.2. Land converted to wetlands	Table4	Net CO_2 emissions/removals	2016	2017	12.82	83.67	70.85	kt CO_2 eq	70.85	552.8	3.1
I.5.36.	4.E.2. Land converted to settlements	Table4	Net CO_2 emissions/removals	2019	2020	2 274.73	1 703.04	–571.69	kt CO_2 eq	–571.69	–25.1	–3.2
I.5.37.	5.C.1. Waste incineration	Table5	CO_2	2009	2010	61.70	196.48	134.77	kt	134.77	218.4	3.7
I.5.38.	5.F.2. Annual change in total carbon storage	Table5	CO_2	2008	2009	352.92	235.00	–117.93	kt	–117.93	–33.4	–3.1
I.5.39.	5.F.2. Annual change in total carbon storage	Table5	CO_2	2009	2010	235.00	116.81	–118.19	kt	–118.19	–50.3	–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.	1.A.1. Energy industries – gaseous fuels	Table1.A(a)s1	CO_2	t/TJ	59.071	Above range
I.6.2.	2.D.2. Paraffin wax use	Table2(I).A-H	CO_2	t/t	2.948	Above range

ID#	*Category*	*CRT*	*Gas*	*Unit*	*IEF reported*	*Comparison*
I.6.3.	2.F.1.a. Commercial refrigeration – HFC-32	Table2(II).B-Hs2	Disposal loss factor	%	558.051	Above range
I.6.4.	3.A.2. Sheep	Table3.A	CH_4	kg CH_4/head/year	13.235	Above range
I.6.5.	3.A.2.a. Other (please specify)	Table3.A	CH_4	kg CH_4/head/year	13.235	Above range
I.6.6.	3.A.4.h. Other	Table3.A	CH_4	kg CH_4/head/year	14.000	Above range
I.6.7.	3.B.4.e. Horses	Table3.B(a)	CH_4	kg CH_4/head/year	10.566	Above range
I.6.8.	5.A.1. Managed waste disposal sites	Table5.A	CH_4	t/t waste	1.809	Above range
I.6.9.	5.A.1.a. Anaerobic	Table5.A	CH_4	t/t waste	1.809	Above range
I.6.10.	5.C.1.a. Biogenic	Table5.C	CO_2	kg/t waste	198 396.901	Above range

Table I.7
Identification of new key categories

ID#	*New key category*	*Gas*	*Criteria*	*Inventory year*
I.7.1.	1.A.5. Other (not specified elsewhere) – liquid fuels	CO_2	Level	2023
I.7.2.	2.B.1. Ammonia production	CO_2	Trend	2023
I.7.3.	2.B.8. Petrochemical and carbon black production	CO_2	Trend	2023
I.7.4.	3.B. Manure management	CH_4	Trend	2023