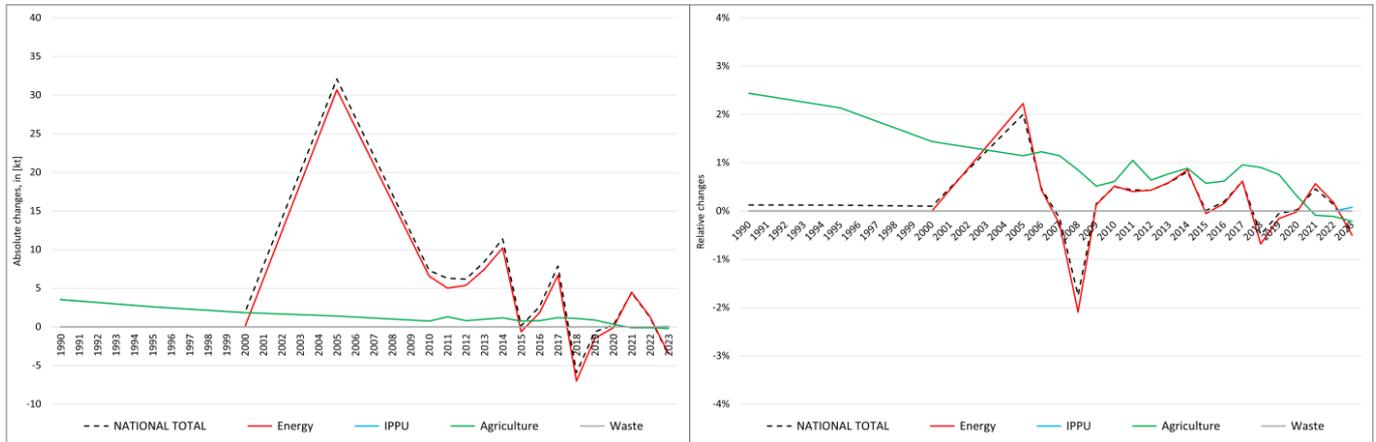


Recalculations - Nitrogen Oxides



The marginal changes within the **National Total** reported for 1990 (+3.77 kt or +0.13 %) are dominated by changes in NFRs **1.A.3.d ii**, **1.A.2.g vii** and **1.A.4.c ii** together with less significant revisions throughout NFRs 1, 2 and 3. The most significant percental change occurs for **NFR 3.B.4.e** with plus 450 %.

Table 1: Changes of emission estimates 1990

	Submission 2025	Submission 2026	Difference		Reasoning	
NFR Sector	[kt]			relative	see description and reasoning in:	
NATIONAL TOTAL	2.846,04	2.849,57	3,54	0,12%	sub-category chapters	
NFR 1 - Energy	2.599,34	2.599,34	0,00	0,00%	sub-category chapters	
1.A.1.a	464,36	464,36	0,00	0,00%	here	
1.A.1.b	36,84	36,84	0,00	0,00%	here	
1.A.1.c	107,23	107,23	0,00	0,00%	here	
1.A.2.a	50,32	50,32	0,00	0,00%	here	
1.A.2.b	2,21	2,21	0,00	0,00%	here	
1.A.2.c	IE	IE	#WERT!	#WERT!	1.A.2.c - Stationary combustion in manufacturing industries and construction: Chemicals	
1.A.2.d	IE	IE	#WERT!	#WERT!	here	
1.A.2.e	3,60	3,60	0,00	0,00%		here
1.A.2.f	2,64	2,64	0,00	0,00%		here
1.A.2.g vii	34,654	34,657	0,003	0,01%	here	
1.A.2.g viii	201,21	201,21	0,00	0,00%	here	
1.A.3.a i(i)	3,66	3,66	0,00	0,00%	here	
1.A.3.a ii(i)	2,60	2,60	0,00	0,00%	here	
1.A.3.b i	795,98	795,98	0,00	0,00%	here	
1.A.3.b ii	32,82	32,82	0,00	0,00%	here	
1.A.3.b iii	482,15	482,15	0,00	0,00%	here	
1.A.3.b iv	2,49	2,49	0,00	0,00%	here	
1.A.3.b v	NA	NA	#WERT!	#WERT!	here	
1.A.3.b vi	NA	NA	#WERT!	#WERT!	here	
1.A.3.b vii	NA	NA	#WERT!	#WERT!	here	
1.A.3.c	45,49	45,49	0,00	0,00%	here	
1.A.3.d i(ii)	IE	IE	#WERT!	#WERT!		

	Submission 2025	Submission 2026	Difference		Reasoning	
NFR Sector	[kt]			relative	see description and reasoning in:	
NATIONAL TOTAL	2.846,04	2.849,57	3,54	0,12%	sub-category chapters	
NFR 1 - Energy	2.599,34	2.599,34	0,00	0,00%	sub-category chapters	
1.A.3.d ii	53,25	53,25	0,00	0,00%	here	
1.A.3.e i	3,99	3,99	0,00	0,00%	1.A.3.e i - Pipeline Transport]	
1.A.3.e ii	NA	NA	#WERT!	#WERT!	1.A.3.e ii - Other Transport: Other]	
1.A.4.a i	47,36	47,36	0,00	0,00%	here	
1.A.4.a ii	10,439	10,437	-0,002	-0,02%	here	
1.A.4.b i	90,29	90,29	0,00	0,00%	here	
1.A.4.b ii	0,08	0,08	0,00	0,00%	here	
1.A.4.c i	6,11	6,11	0,00	0,00%	here	
1.A.4.c ii	64,29	64,29	0,00	0,00%	here	
1.A.4.c iii	0,38	0,38	0,00	0,00%	here	
1.A.5.a	5,49	5,49	0,00	0,00%	here	
1.A.5.b	41,17	41,17	0,00	0,00%	here	
1.B.1.a	NA	NA	#WERT!	#WERT!	here	
1.B.1.b	0,35	0,35	0,00	0,00%	here	
1.B.1.c	NA	NA	#WERT!	#WERT!	here	
1.B.2.a i	NA	NA	#WERT!	#WERT!		
1.B.2.a iv	0,2380	0,2380	0,00	0,00%		
1.B.2.a v	NA	NA	#WERT!	#WERT!		
1.B.2.b	0,07	0,07	0,00	0,00%		
1.B.2.c	7,60	7,60	0,00	0,00%		
1.B.2.d	NA	NA	#WERT!	#WERT!		
NFR 2 - IPPU	100,73	100,73	0,00	0,00%	sub-category chapters	
2.A.1	37,58	37,58	0,00	0,00%	2.A.1 - Cement Production	
2.A.2	9,50	9,50	0,00	0,00%		2.A.2 - Lime Production
2.A.3	30,90	30,90	0,00	0,00%		2.A.3 - Glass Production
2.A.5.a	NA	NA	#WERT!	#WERT!		2.A.5.a - Quarrying and Mining of Minerals other than Coal
2.A.5.b	NA	NA	#WERT!	#WERT!		2.A.5.b - Construction and Demolition
2.A.5.c	NA	NA	#WERT!	#WERT!		2.A.5.c - Storage, Handling and Transport of Mineral Products
2.A.6	IE	IE	#WERT!	#WERT!		2.A.6 - Other Mineral Products
2.B.1	2,70	2,70	0,00	0,00%	2.B.1 - Ammonia Production	
2.B.2	11,30	11,30	0,00	0,00%		2.B.2 - Nitric Acid Production
2.B.3	0,09	0,091	0,00	0,00%		2.B.3 - Adipic Acid Production
2.B.5	NA	NA	#WERT!	#WERT!		2.B.5 - Carbide Production
2.B.6	0,04	0,04	0,00	0,00%		2.B.6 - Titanium Dioxide Production
2.B.7	NA	NA	#WERT!	#WERT!		2.B.7 - Soda Ash Production
2.B.10.a	NA	NA	#WERT!	#WERT!		2.B.10.a - Other

	Submission 2025	Submission 2026	Difference		Reasoning	
NFR Sector	[kt]		relative		see description and reasoning in:	
NATIONAL TOTAL	2.846,04	2.849,57	3,54	0,12%	sub-category chapters	
NFR 1 - Energy	2.599,34	2.599,34	0,00	0,00%	sub-category chapters	
2.B.10.b	NA	NA	#WERT!	#WERT!		2.B.10.b - Storage, Handling and Transport of Chemical Products
2.C.1	4,60	4,60	0,00	0,00%	2.C.1 - Iron and Steel Production	
2.C.2	NE	NE	#WERT!	#WERT!		2.C.2 - Ferroalloys Production
2.C.3	0,74	0,74	0,00	0,00%	here	
2.C.4	NA	NA	#WERT!	#WERT!	2.C.4 - Magnesium Production	
2.C.5	NA	NA	#WERT!	#WERT!		2.C.5 - Lead Production
2.C.6	NA	NA	#WERT!	#WERT!		2.C.6 - Zinc Production
2.C.7.a	NA	NA	#WERT!	#WERT!		2.C.7.a - Copper Production
2.C.7.b	NE	NE	#WERT!	#WERT!		2.C.7.b - Nickel Production
2.C.7.c	NA	NA	#WERT!	#WERT!		2.C.7.c - Other Metal_Production
2.C.7.d	NA	NA	#WERT!	#WERT!		2.C.7.d - Storage, Handling and Transport of Metal Products
2.D.3.a	NA	NA	#WERT!	#WERT!	2.D.3.a - Domestic Solvent Use including fungicides	
2.D.3.b	0,75	0,75	0,00	0,00%		2.D.3.b - Road Paving with Asphalt
2.D.3.c	NA	NA	#WERT!	#WERT!		2.D.3.c - Asphalt Roofing
2.D.3.d	NA	NA	#WERT!	#WERT!		2.D.3.d - Coating Applications
2.D.3.e	NA	NA	#WERT!	#WERT!		2.D.3.e - Degreasing
2.D.3.f	NA	NA	#WERT!	#WERT!		2.D.3.f - Dry Cleaning
2.D.3.g	NA	NA	#WERT!	#WERT!		2.D.3.g - Chemical Products
2.D.3.h	NA	NA	#WERT!	#WERT!		2.D.3.h - Printing
2.D.3.i	NA	NA	#WERT!	#WERT!	here	
2.G	0,31	0,31	0,00	0,00%	here	
2.H.1	2,21	2,21	0,00	0,00%	2.H.1 - Pulp and Paper Industry	
2.H.2	NA	NA	#WERT!	#WERT!		2.H.2 - Food and Beverages Industry
2.H.3	NA	NA	#WERT!	#WERT!		2.H.3 - Other Industrial Processes
2.I	NA	NA	#WERT!	#WERT!	here	
2.J	NO	NO	#WERT!	#WERT!	here	
2.K	NA	NA	#WERT!	#WERT!	2.K - Consumption of POPs and Heavy Metals	
2.L	NA	NA	#WERT!	#WERT!	here	
NFR 3 - Agriculture	145,23	148,77	3,54	2,44%	sub-category chapters	
3.B.1.a	0,89	1,04	0,14	16,16%	here	
3.B.1.b	0,8427	0,8427	0,00	0,00%	here	
3.B.2	0,04	0,04	0,00	0,00%	here	

	Submission 2025	Submission 2026	Difference		Reasoning	
NFR Sector	[kt]			relative	see description and reasoning in:	
NATIONAL TOTAL	2.846,04	2.849,57	3,54	0,12%	sub-category chapters	
NFR 1 - Energy	2.599,34	2.599,34	0,00	0,00%	sub-category chapters	
3.B.3	0,36	0,35	-0,01	-2,68%	here	
3.B.4.a	NO	NO	#WERT!	#WERT!	here	
3.B.4.d	0,00228	0,00228	0,00	0,00%	here	
3.B.4.e	0,232	0,232	0,00	0,00%	here	
3.B.4.f	IE	IE	#WERT!	#WERT!	here	
3.B.4.g i	0,014	0,014	0,00	0,00%	here	
3.B.4.g ii	0,00560	0,00560	0,00	0,01%	here	
3.B.4.g iii	0,00343	0,00343	0,00	0,00%	here	
3.B.4.g iv	0,0028	0,0028	0,00	0,00%	here	
3.B.4.h	0,0077	0,0077	0,00	0,00%	here	
3.D.a.1	86,53	86,53	0,00	0,00%	here	
3.D.a.2.a	45,94	48,75	2,81	6,11%	here	
3.D.a.2.b	1,08	1,08	0,00	0,00%	here	
3.D.a.2.c	0,428	0,428	0,00	0,00%	here	
3.D.a.3	8,84	9,44	0,59	6,73%	here	
3.D.a.4	NA	NA	#WERT!	#WERT!	here	
3.D.b	NA	NA	#WERT!	#WERT!	here	
3.D.c	NA	NA	#WERT!	#WERT!	here	
3.D.d	NA	NA	#WERT!	#WERT!	here	
3.D.e	NA	NA	#WERT!	#WERT!	here	
3.D.f	NA	NA	#WERT!	#WERT!	here	
3.F	NO	NO	#WERT!	#WERT!		
3.I	0,000079	0,000079	0,00	0,00%		
NFR 5 - Waste	0,74	0,74	0,00	0,00%	sub-category chapters	
5.A	NA	NA	#WERT!	#WERT!	5.A - Biological Treatment of Waste - Solid Waste Disposal on Land	
5.B.1	NA	NA	#WERT!	#WERT!		5.B.1 - Biological treatment of waste - Composting
5.B.2	NA	NA	#WERT!	#WERT!		5.B.2 - Biological treatment of waste - Anaerobic digestion at biogas facilities
5.C.1.a	NO	NO	#WERT!	#WERT!		
5.C.1.b i	NO	NO	#WERT!	#WERT!		
5.C.1.b ii	NO	NO	#WERT!	#WERT!		
5.C.1.b iii	NO	NO	#WERT!	#WERT!		
5.C.1.b iv	NO	NO	#WERT!	#WERT!		
5.C.1.b v	0,14	0,14	0,00	0,00%		5.C.1.b.v - Cremation
5.C.1.b vi	NA	NA	#WERT!	#WERT!		
5.C.2	0,60	0,60	0,00	0,00%		5.C.2 - Open Burning of Waste
5.D.1	NA	NA	#WERT!	#WERT!		5.D.1 - Domestic & Commercial Wastewater Handling
5.D.2	NA	NA	#WERT!	#WERT!		5.D.2 - Industrial Wastewater Handling
5.D.3	NO	NO	#WERT!	#WERT!		

	Submission 2025	Submission 2026	Difference		Reasoning	
NFR Sector	[kt]			relative	see description and reasoning in:	
NATIONAL TOTAL	2.846,04	2.849,57	3,54	0,12%	sub-category chapters	
NFR 1 - Energy	2.599,34	2.599,34	0,00	0,00%	sub-category chapters	
5.E	NE	NE	#WERT!	#WERT!		5.E - Other Waste
NFR 6 - Other	0,00	0,00	0,00	#DIV/0!		

The small changes within the **National Total** reported for **2023 (-3.65 kt or -0.43 %)** are dominated by **revisions throughout NFR 1** with the most significant *absolute* change occurring for **NFR 1.A.4.c ii with minus 4.58 kt** together with less significant revisions **throughout NFRs 2 and 3**.

Here, the most significant *percental* change occurs for **NFR 1.A.2.g vii with plus 34.4 %**.

Table 2: Changes of emission estimates 2023

	Submission 2025	Submission 2026	Difference		Reasoning
NFR Sector	[kt]			relative	see description and reasoning in:
NATIONAL TOTAL	844.88	841.23	-3.65	-0.43%	sub-category chapters
NFR 1 - Energy	695.05	691.57	-3.48	-0.50%	sub-category chapters
1.A.1.a	168.11	169.59	1.48	0.88%	here
1.A.1.b	14.34	14.24	-0.10	-0.69%	here
1.A.1.c	10.84	11.58	0.74	6.79%	here
1.A.2.a	3.86	3.90	0.04	0.93%	here
1.A.2.b	0.944	0.939	-0.004	-0.47%	here
1.A.2.e	0.23	0.19	-0.05	-19.84%	here
1.A.2.g vii	5.15	6.92	<u>1.77</u>	<u>34.37%</u>	here
1.A.2.g viii	59.41	58.18	<u>-1.24</u>	<u>-2.08%</u>	here
1.A.3.b i	169.24	169.07	-0.16	-0.10%	here
1.A.3.b ii	41.34	40.92	-0.42	-1.02%	here
1.A.3.b iii	59.99	59.53	-0.47	-0.78%	here
1.A.3.b iv	1.18	1.17	-0.01	-0.85%	here
1.A.3.c	7.358	7.360	0.002	0.03%	here
1.A.3.d ii	19.69	19.20	-0.49	-2.49%	here
1.A.4.a i	17.74	17.00	-0.74	-4.16%	here
1.A.4.a ii	5.45	5.95	0.51	9.29%	here
1.A.4.b i	53.69	53.84	0.14	0.27%	here
1.A.4.b ii	0.40	0.38	-0.02	-4.81%	here
1.A.4.c i	7.575	7.578	0.003	0.04%	here
1.A.4.c ii	32.43	27.85	<u>-4.58</u>	<u>-14.13%</u>	here
1.A.5.a	0.248	0.252	0.004	1.52%	here
1.A.5.b	2.80	2.88	0.07	2.59%	here
1.B.1.b	0.23	0.29	0.05	23.38%	here
1.B.2.a iv	0.652	0.651	-0.002	-0.26%	
1.B.2.c	0.306	0.303	-0.003	-1.04%	
NFR 2 - IPPU	49.23	49.27	0.04	0.07%	sub-category chapters
2.A.3	9.91	9.95	0.03	0.33%	here
2.C.1	18.520	18.522	0.003	0.02%	here
2.G	0.18754	0.18757	0.00003	0.01%	here
NFR 3 - Agriculture	99.51	99.30	-0.21	-0.21%	sub-category chapters
3.B.1.a	0.545	0.520	-0.02	-4.54%	here
3.B.1.b	0.558	0.556	-0.003	-0.47%	here
3.B.3	0.22	0.21	-0.01	-6.09%	here
3.B.4.e	0.23	0.27	0.04	15.85%	here

	Submission 2025	Submission 2026	Difference		Reasoning
NFR Sector	[kt]		absolute	relative	see description and reasoning in:
NATIONAL TOTAL	844.88	841.23	-3.65	-0.43%	sub-category chapters
NFR 1 - Energy	695.05	691.57	-3.48	-0.50%	sub-category chapters
3.B.4.g i	0.017	0.013	-0.004	-24.25%	here
3.B.4.g ii	0.013	0.010	-0.003	-23.09%	here
3.B.4.g iii	0.007	0.005	-0.002	-25.27%	here
3.B.4.g iv	0.0020	0.0016	-0.0004	-18.73%	here
3.D.a.1	40.89	41.31	0.41	1.01%	here
3.D.a.2.a	36.65	36.44	-0.21	-0.58%	here
3.D.a.2.b	0.476	0.410	-0.07	-13.84%	here
3.D.a.2.c	14.61	14.27	-0.34	-2.31%	here
3.D.a.3	5.17	5.19	0.03	0.52%	here
3.l	0.09	0.07	-0.02	-23.60%	here
NFR 5 - Waste	1.09	1.09	0.00	0.00%	
NFR 6 - Other	NA				