

Recalculations - Ammonia

Revision of NH₃ emissions over time:



The small changes within the **National Total** reported for **1990 (-3.1 kt or -0.43 %)** result almost entirely from revisions in NFRs **2.B.10.a** (-3.14 kt), **3.B.3** (+4.69 kt) and **3.D.a.2.a** (+1.54 kt) together with less significant changes throughout NFRs 1 and 2.

However, the most significant percental change occurs for **NFR 1.A.3.d ii with minus 54 %**.

Table 1: Changes in emission estimates for 1990

NFR Sector	Submission 2021	Submission 2022	Difference		Reasoning
	[kt]			relative	see description and reasoning in:
NATIONAL TOTAL	718,16	725,52	7,36	1,02%	sub-category chapters
NFR 1 - Energy	15,54	15,89	0,35	2,28%	sub-category chapters
1.A.2.g vii	0,0079	0,0079	0,0000	0,14%	here
1.A.3.a i(i)	0,05	0,05	0,00	-6,58%	here
1.A.3.a ii(i)	0,04	0,03	0,00	-6,58%	here
1.A.3.b i	7,37	7,73	0,36	4,92%	here
1.A.3.b ii	0,02	0,02	0,00	3,84%	here
1.A.3.b iii	0,08	0,08	0,00	-4,99%	here
1.A.3.b iv	0,03	0,03	0,00	3,84%	here
1.A.4.a ii	0,00	0,00	0,00	-0,11%	here
1.A.4.b ii	0,000160	0,000160	0,000000	-0,02%	here
1.A.4.c ii	0,01	0,01	0,00	-0,16%	here
NFR 2 - IPPU	14,68	14,68	0,00	0,00%	
NFR 3 - Agriculture	687,79	686,62	-1,17	-0,17%	sub-category chapters
3.B.1.a	62,19	62,10	-0,09	-0,14%	here
3.B.1.b	91,43	81,36	-10,07	-11,02%	here
3.B.2	2,71	2,71	0,00	0,00%	here
3.B.3	121,81	120,10	-1,71	-1,41%	here
3.B.4.a	NO	NO	#WERT!	#WERT!	here
3.B.4.d	0,15	0,15	0,00	0,00%	here
3.B.4.e	6,73	6,73	0,00	0,00%	here
3.B.4.f	IE	IE	#WERT!	#WERT!	here
3.B.4.g i	11,31	11,41	0,10	0,91%	here
3.B.4.g ii	5,07	5,07	0,00	0,00%	here
3.B.4.g iii	3,99	3,99	0,00	0,00%	here
3.B.4.g iv	2,47	2,47	0,00	0,00%	here
3.B.4.h	NE	NE	#WERT!	#WERT!	here
3.D.a.1	78,82	78,82	0,00	0,00%	here
3.D.a.2.a	275,21	285,58	10,37	3,77%	here
3.D.a.2.b	3,66	3,66	0,00	0,00%	here
3.D.a.2.c	0,01	0,24	0,23	2109,71%	here
3.D.a.3	22,23	22,24	0,01	0,05%	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	0,002	0,002	0,00	0,00%	here
NFR 5 - Waste	0,16	0,34	0,18	109,25%	sub-category chapters
5.A	NA	NA	#WERT!	#WERT!	here
5.B.1	0,16	0,34	0,18	109,25%	here
5.B.2	NA	NA	#WERT!	#WERT!	here
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!	

	Submission 2021	Submission 2022	Difference		Reasoning
NFR Sector	[kt]		relative	see description and reasoning in:	
NATIONAL TOTAL	718,16	725,52	7,36	1,02%	sub-category chapters
NFR 1 - Energy	15,54	15,89	0,35	2,28%	sub-category chapters
5.C.1.b iii	NO	NO	#WERT!	#WERT!	
5.C.1.b iv	NO	NO	#WERT!	#WERT!	
5.C.1.b v	NA	NA	#WERT!	#WERT!	here
5.C.1.b vi	NA	NA	#WERT!	#WERT!	
5.C.2	NE	NE	#WERT!	#WERT!	here
5.D.1	NA	NA	#WERT!	#WERT!	here
5.D.2	NA	NA	#WERT!	#WERT!	here
5.D.3	NO	NO	#WERT!	#WERT!	
5.E	NE	NE	#WERT!	#WERT!	here
NFR 6 - Other	0,00	8,00	8,00	#DIV/0!	

Changes within the **National Total** reported for **2019 (-11.7 kt | -2 %)** result mainly from several larger revisions in **NFR 3 (-9.6 kt)** together with less significant changes throughout NFRs 1, 2 and 5.

The most significant relative change occurs for **NFR 2.A.3 with plus 68 %**.

Table 2: Changes in emission estimates for 2019

	Submission 2022	Submission 2023	Difference		Reasoning
NFR Sector	[kt]		relative	see description and reasoning in:	
NATIONAL TOTAL	537,27	529,78	-7,49	-1,39%	sub-category chapters
NFR 1 - Energy	12,31	13,20	0,89	7,19%	sub-category chapters
1.A.1.a	0,62	0,60	-0,02	-3,18%	here
1.A.1.b	0,541	0,545	0,004	0,80%	here
1.A.1.c	0,0243	0,0246	0,0002	0,96%	here
1.A.2.a	0,095	0,093	-0,002	-1,83%	here
1.A.2.b	0,0063	0,0070	0,001	12,16%	here
1.A.2.e	0,0018	0,0012	-0,0006	-33,75%	here
1.A.2.f	0,0218	0,0215	-0,0003	-1,34%	here
1.A.2.g vii	0,0083	0,0085	0,0002	2,07%	here
1.A.2.g viii	0,365	0,369	0,003	0,95%	here
1.A.3.a i(i)	0,058	0,054	-0,004	-6,63%	here
1.A.3.a ii(i)	0,015	0,014	-0,001	-6,73%	here
1.A.3.b i	7,59	8,36	0,77	10,13%	here
1.A.3.b ii	0,197	0,220	0,023	11,64%	here
1.A.3.b iii	0,743	0,726	-0,017	-2,30%	here
1.A.3.b iv	0,0221	0,0224	0,0003	1,14%	here
1.A.3.c	0,007	0,008	0,000	5,20%	here
1.A.3.d ii	0,0052	0,0052	0,0000	-0,01%	here
1.A.4.a i	0,36	0,50	0,14	37,57%	here
1.A.4.a ii	0,001875	0,001884	0,000009	0,48%	here
1.A.4.b i	1,531	1,524	-0,01	-0,40%	here
1.A.4.b ii	0,00038	0,00030	-0,00008	-21,40%	here
1.A.4.c i	0,052	0,050	-0,003	-5,09%	here
1.A.4.c ii	0,0101	0,0102	0,0001	1,40%	here
1.A.5.a	0,00373	0,00375	0,00001	0,39%	here
1.A.5.b	0,01966	0,01963	-0,00003	-0,16%	here
1.B.1.b	0,00192	0,00193	0,00002	0,89%	here
NFR 2 - IPPU	9,139	9,590	0,45	4,93%	sub-category chapters
2.A.1	1,01	1,11	0,10	9,45%	here
2.A.3	1,10	1,13	0,03	2,76%	here
2.B.7	0,92	1,25	0,32	35,20%	here
2.C.1	0,075598	0,075595	-0,000004	-0,01%	here

	Submission 2022	Submission 2023	Difference		Reasoning
NFR Sector	[kt]			relative	see description and reasoning in:
NATIONAL TOTAL	537,27	529,78	-7,49	-1,39%	sub-category chapters
NFR 1 - Energy	12,31	13,20	0,89	7,19%	sub-category chapters
NFR 3 - Agriculture	512,27	495,10	-17,18	-3,35%	sub-category chapters
3.B.1.a	59,09	54,85	-4,24	-7,17%	here
3.B.1.b	70,41	49,64	-20,77	-29,49%	here
3.B.3	84,75	78,56	-6,19	-7,30%	here
3.B.4.g i	8,17	6,80	-1,36	-16,70%	here
3.B.4.g ii	8,21	8,27	0,06	0,74%	here
3.B.4.g iii	9,08	9,07	-0,02	-0,17%	here
3.B.4.g iv	1,54	1,53	-0,01	-0,38%	here
3.D.a.1	36,97	35,94	-1,04	-2,80%	here
3.D.a.2.a	158,67	170,65	11,98	7,55%	here
3.D.a.2.b	1,90	1,67	-0,23	-12,25%	here
3.D.a.2.c	50,12	54,33	4,21	8,40%	here
3.D.a.3	12,30	12,68	0,38	3,12%	here
3.l	3,14	3,18	0,04	1,16%	here
NFR 5 - Waste	3,54	3,55	0,01	0,32%	sub-category chapters
5.B.1	1,96	2,03	0,07	3,70%	here
5.B.2	1,59	1,53	-0,06	-3,84%	here
NFR 6 - Other	0,00	8,34	8,34		
6.A	NA	8,34	8,34		here