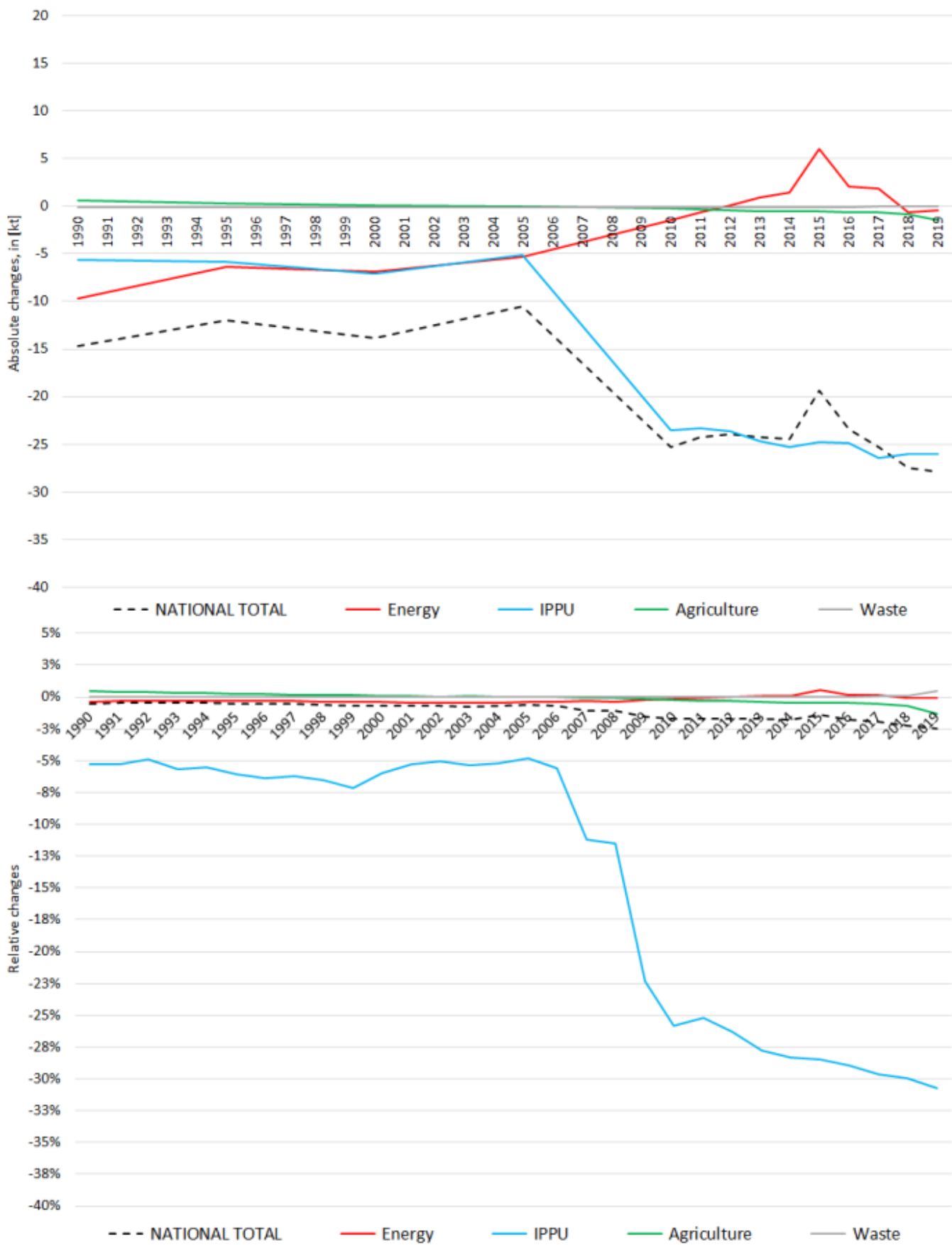


Recalculations - Nitrogen Oxides

Revision of NO_x emissions over time:



Changes within the **National Total** reported for **1990 (-14.72 kt or -0.52 %)** are dominated by changes in NFRs **1.A.3.d ii** (-9.18 kt) and **2.B.2** (-5.68 kt) together with less significant revisions throughout NFRs 1, 2 and 3.

The most significant percental change occurs for **NFR 1.A.4.c iii with minus 52 %**.

Table 1: Changes of emission estimates 1990

	Submission 2021	Submission 2022	Difference		Reasoning
NFR Sector	[kt]			relative	see description and reasoning in:
NATIONAL TOTAL	2.850,05	2.835,33	-14,72	-0,52%	sub-category chapters
NFR 1 - Energy	2.601,88	2.592,15	-9,73	-0,37%	sub-category chapters
1.A.3.a i(i)	3,94	3,94	0,00	-0,02%	here
1.A.3.a ii(i)	2,80	2,78	-0,01	-0,38%	here
1.A.3.b iii	506,00	505,99	-0,01	0,00%	here
1.A.3.c	45,05	45,32	0,26	0,59%	here
1.A.3.d ii	60,65	51,47	-9,18	-15,13%	here
1.A.4.b ii	0,06	0,08	0,02	30,65%	here
1.A.4.c iii	0,81	0,39	-0,42	-51,95%	here
1.A.5.b	41,60	41,20	-0,40	-0,96%	here
NFR 2 - IPPU	106,37	100,73	-5,64	-5,30%	sub-category chapters
2.B.2	16,98	11,30	-5,68	-33,44%	2.B.2 - Nitric Acid Production
2.B.6	NE	0,04	0,04		2.B.6 - Titanium Dioxide Production
NFR 3 - Agriculture	141,27	141,92	0,65	0,46%	sub-category chapters
3.B.1.b	0,6958	0,6896	-0,01	-0,89%	here
3.B.3	0,26	0,28	0,02	6,48%	here
3.B.4.g i	0,0144	0,0143	0,0001	-1,15%	here
3.B.4.g iv	0,00251	0,00248	-0,00003	-1,33%	here
3.D.a.2.a	43,46	44,14	0,68	1,58%	here
3.D.a.3	8,44	8,40	-0,04	-0,49%	here
NFR 5 - Waste	0,53	0,53	0,00	0,00%	
NFR 6 - Other	NA				

The changes within the **National Total** reported for **2019 (-28 kt or -2.46 %)** are dominated by changes in **NFR 2.B.2** (-25.6 kt) together with less significant revisions **throughout NFRs 1 and 3**.

Here, the most significant percental changes occur for NFRs **2.C.3 with plus 104 %** and **2.B.2 with minus 96 %**.

Table 2: Changes of emission estimates 2019

	Submission 2021	Submission 2022	Difference		Reasoning
NFR Sector	[kt]			relative	see description and reasoning in:
NATIONAL TOTAL	1.136,79	1.108,82	-27,97	-2,46%	sub-category chapters
NFR 1 - Energy	938,97	938,49	-0,48	-0,05%	sub-category chapters
1.A.1.a	208,92	208,57	-0,34	-0,16%	here
1.A.1.b	16,66	16,66	0,01	0,05%	here
1.A.1.c	12,01	13,38	1,37	11,43%	here
1.A.2.a	3,95	4,15	0,21	5,25%	here
1.A.2.b	1,01	0,98	-0,03	-2,88%	here
1.A.2.e	0,208	0,207	-0,001	-0,67%	here
1.A.2.g vii	14,81	14,74	-0,07	-0,47%	here
1.A.2.g viii	68,68	67,08	-1,61	-2,34%	here
1.A.3.a i(i)	11,77	11,93	0,16	1,37%	here
1.A.3.a ii(i)	2,61	2,65	0,03	1,28%	here
1.A.3.b i	275,95	271,75	-4,20	-1,52%	here
1.A.3.b ii	56,31	55,69	-0,61	-1,09%	here
1.A.3.b iii	106,05	106,65	0,60	0,56%	here
1.A.3.b iv	1,61	1,60	-0,02	-1,10%	here
1.A.3.c	7,33	7,99	0,66	8,94%	here

	Submission 2021	Submission 2022	Difference		Reasoning
NFR Sector	[kt]		absolute	relative	see description and reasoning in:
NATIONAL TOTAL	1.136,79	1.108,82	-27,97	-2,46%	sub-category chapters
NFR 1 - Energy	938,97	938,49	-0,48	-0,05%	sub-category chapters
1.A.3.d ii	24,70	24,75	0,05	0,22%	here
1.A.4.a i	20,65	20,43	-0,22	-1,06%	here
1.A.4.a ii	7,96	7,92	-0,04	-0,55%	here
1.A.4.b i	56,94	60,05	3,11	5,47%	here
1.A.4.b ii	0,4913	0,5745	0,08	16,94%	here
1.A.4.c i	6,03	7,01	0,98	16,21%	here
1.A.4.c iii	0,5584	0,3768	-0,18	-32,53%	here
1.A.5.a	0,22	0,23	0,01	4,92%	here
1.A.5.b	3,52	3,10	-0,43	-12,09%	here
1.B.2.a iv	0,7171	0,7172	0,0001	0,01%	
NFR 2 - IPPU	84,76	58,71	-26,05	-30,73%	sub-category chapters
2.A.3	11,14	10,67	-0,47	-4,20%	here
2.A.6	2,13	2,13	0,00	0,04%	here
2.B.2	26,69	1,07	-25,62	-96,00%	here
2.C.3	0,51	0,51	0,53	104%	here
2.H.1	2,947	2,943	-0,003	-0,11%	here
NFR 3 - Agriculture	112,24	110,79	-1,44	-1,29%	sub-category chapters
3.B.1.a	0,489	0,507	0,017	3,52%	here
3.B.1.b	0,487	0,515	0,029	5,88%	here
3.B.3	0,3276	0,2616	-0,0660	-20,14%	here
3.B.4.d	0,00187	0,00191	0,00004	2,35%	here
3.B.4.e	0,0362	0,0386	0,0024	6,67%	here
3.B.4.g i	0,0180	0,0182	0,0003	1,46%	here
3.B.4.g ii	0,0179	0,0139	-0,0039	-21,88%	here
3.B.4.g iii	0,0108	0,0100	-0,0007	-6,78%	here
3.B.4.g iv	0,00202	0,00205	0,00002	1,06%	here
3.D.a.1	55,97	55,34	-0,62	-1,11%	here
3.D.a.2.a	37,54	37,05	-0,49	-1,30%	here
3.D.a.2.b	0,51	0,56	0,05	10,17%	here
3.D.a.2.c	11,55	11,56	0,01	0,08%	here
3.D.a.3	5,10	4,73	-0,37	-7,21%	here
3.I	0,172	0,169	-0,003	-1,86%	here
NFR 5 - Waste	0,826	0,830	0,004	0,50%	sub-category chapters
5.C.2	0,283	0,288	0,004	1,44%	here
NFR 6 - Other	NA				