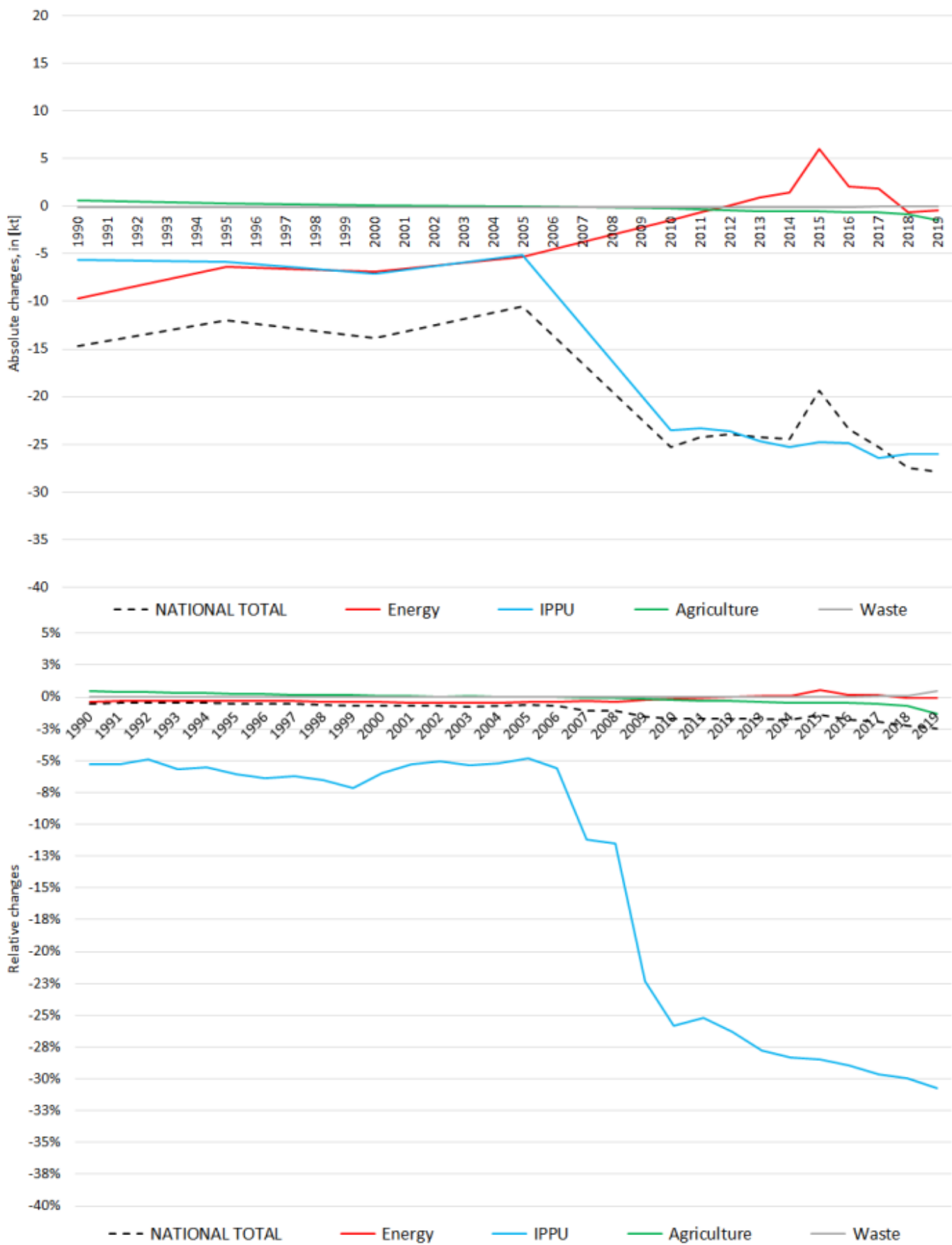


Recalculations - Nitrogen Oxides

Revision of NO_x emissions over time:



Changes within the **National Total reported for 1990 (-34 kt | -1.19 %)** are dominated by changes in **NFRs 1.A.3.b i, 1.A.3.b ii and 1.A.3.b iii** together with less significant revisions throughout NFRs 1, 2 and 3.

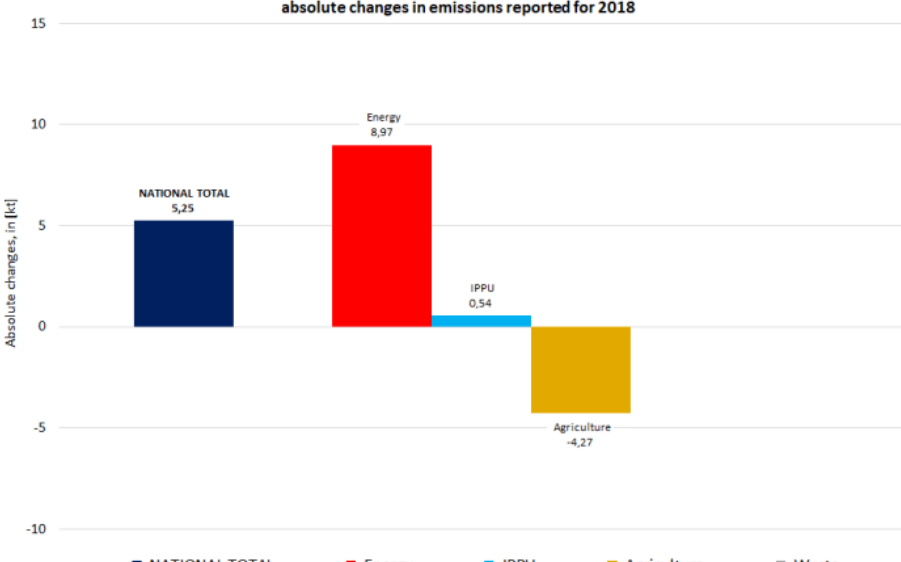
The most significant relative change occurs for **NFR 2.G with minus 58 %**.

Table 1: Changes of emission estimates 1990

absolute changes in emissions reported for 1990 <table><thead><tr><th>Category</th><th>Absolute change (kt)</th></tr></thead><tbody><tr><td>NATIONAL TOTAL</td><td>-33,47</td></tr><tr><td>Energy</td><td>-31,50</td></tr><tr><td>IPPU</td><td>0,311</td></tr><tr><td>Agriculture</td><td>-2,285</td></tr><tr><td>Waste</td><td>0,00</td></tr></tbody></table>					Category	Absolute change (kt)	NATIONAL TOTAL	-33,47	Energy	-31,50	IPPU	0,311	Agriculture	-2,285	Waste	0,00	Submission 2021	Submission 2022	Difference	Reasoning
Category	Absolute change (kt)																			
NATIONAL TOTAL	-33,47																			
Energy	-31,50																			
IPPU	0,311																			
Agriculture	-2,285																			
Waste	0,00																			
NFR Code	[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	0,01443	0,01427	0,00	-1,145%	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	0,00	0,00	0,00																	

The small changes within the **National Total reported for 2018 (+8.22 kt | +0.68 %)** are dominated by changes in **NFRs 1 and 3**. Here, the most significant relative change occurs for **NFR 2.G with minus 49 %**.

Table 2: Changes of emission estimates 2018

absolute changes in emissions reported for 2018					Submission 2020	Submission 2021	Difference	Reasoning	
									
NFR Code					[kt]			relative	see description and reasoning in:
NATIONAL TOTAL					1.202,28	1.210,50	8,22	0,68%	sub-category chapters
NFR 1 - Energy					996,11	1.007,16	11,05	1,11%	sub-category chapters
1.A.1.a					239,65	241,73	2,08	0,87%	here
1.A.1.b					13,03	16,16	3,13	24,04%	here
1.A.1.c					12,04	13,06	1,02	8,50%	here
1.A.2.a					4,10	4,17	0,07	1,75%	here
1.A.2.b					0,99	1,02	0,03	2,54%	here
1.A.2.e					0,19	0,21	0,02	9,42%	here
1.A.2.g vii					11,31	15,37	4,07	35,97%	here
1.A.2.g viii					72,70	68,70	-4,00	-5,50%	here
1.A.3.a i(i)					11,77	11,84	0,07	0,61%	here
1.A.3.a ii(i)					2,31	2,67	0,35	15,27%	here
1.A.3.b i					286,10	294,97	8,87	3,10%	here
1.A.3.b ii					60,49	60,37	-0,12	-0,20%	here
1.A.3.b iii					119,39	116,30	-3,09	-2,59%	here
1.A.3.b iv					1,63	1,66	0,03	1,59%	here
1.A.3.c					8,71	7,49	-1,23	-14,07%	here
1.A.3.d ii					26,09	27,28	1,20	4,60%	here
1.A.3.e i					1,50	1,50	0,01	0,45%	here
1.A.4.a i					20,12	18,60	-1,52	-7,54%	here
1.A.4.a ii					9,92	8,15	-1,77	-17,86%	here
1.A.4.b i					52,65	54,48	1,83	3,49%	here
1.A.4.b ii					0,499	0,501	0,002	0,32%	here
1.A.4.c i					6,07	5,84	-0,23	-3,80%	here
1.A.4.c ii					27,29	27,43	0,14	0,51%	here
1.A.4.c iii					2,69	2,77	0,08	2,70%	here
1.A.5.a					0,25	0,25	0,00	0,22%	here
1.A.5.b					2,87	2,87	0,00	0,07%	here
1.B.1.b					0,64	0,65	0,01	1,55%	here
NFR 2 - IPPU					86,70	86,82	0,12	0,14%	sub-category chapters
2.A.3					11,71	11,51	-0,20	-1,67%	here
2.C.3					NA	0,53	0,53		here
2.G					0,436	0,222	-0,214	-49,14%	here
NFR 3 - Agriculture					118,64	115,69	-2,95	-2,49%	sub-category chapters
3.B.1.a					0,520	0,488	-0,032	-6,21%	here
3.B.1.b					0,566	0,497	-0,070	-12,31%	here
3.B.3					0,3340	0,3352	0,0013	0,38%	here
3.B.4.g i					0,0180	0,0178	-0,0001	-0,65%	here
3.B.4.g ii					0,0180	0,0180	0,0000	-0,20%	here
3.B.4.g iii					0,0108	0,0108	-0,0001	-0,67%	here
3.B.4.g iv					0,0020	0,0020	0,0000	-0,72%	here
3.D.a.1					59,01	59,11	0,10	0,17%	here
3.D.a.2.a					39,94	37,80	-2,14	-5,35%	here
3.D.a.2.b					0,56	0,51	-0,05	-8,55%	here
3.D.a.2.c					11,77	11,55	-0,22	-1,91%	here
3.D.a.3					5,66	5,13	-0,54	-9,47%	here
3.I					0,177	0,172	-0,005	-2,68%	here
NFR 5 - Waste					0,830	0,830	0,000	0,00%	
NFR 6 - Other					NA				