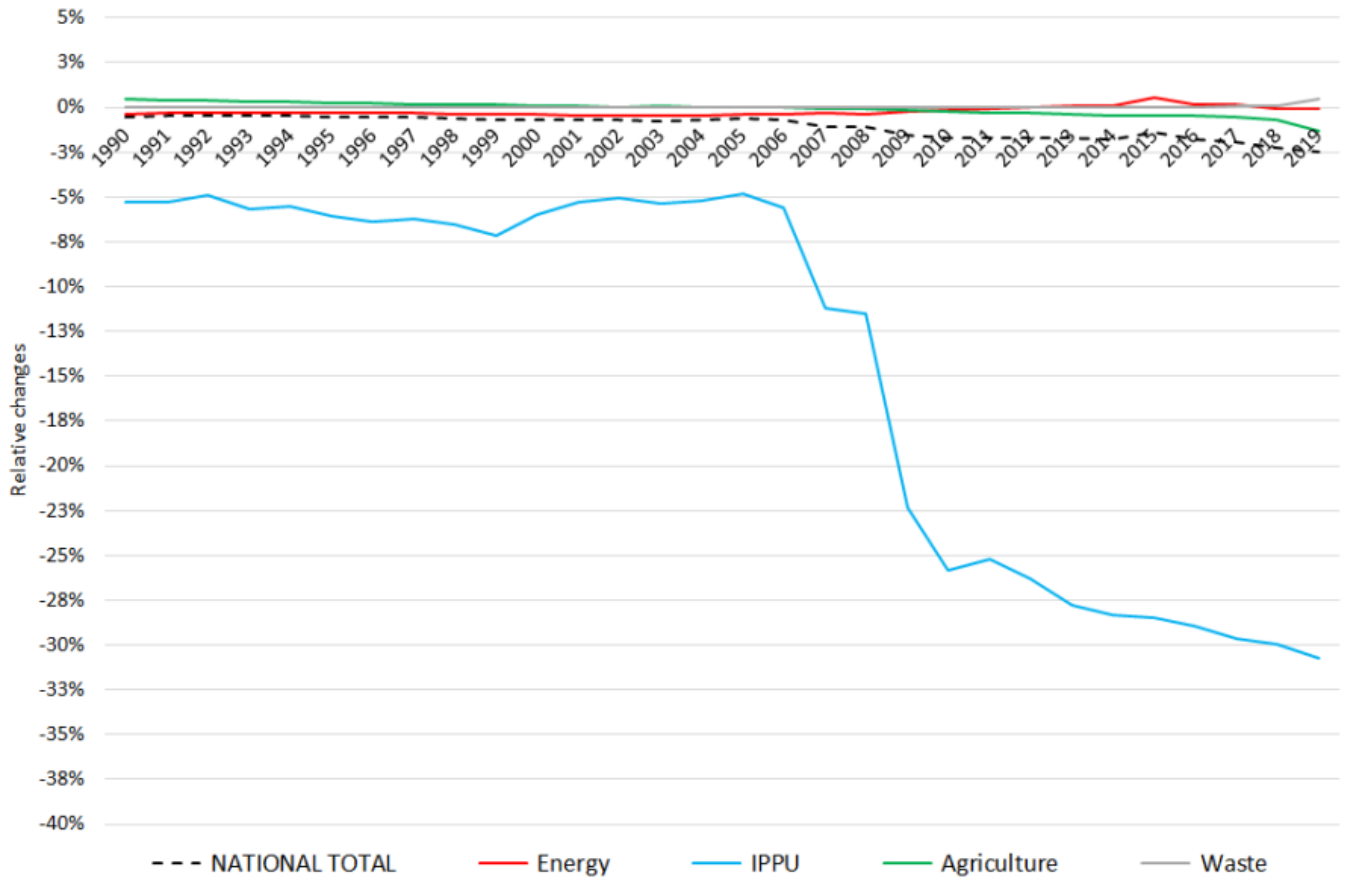
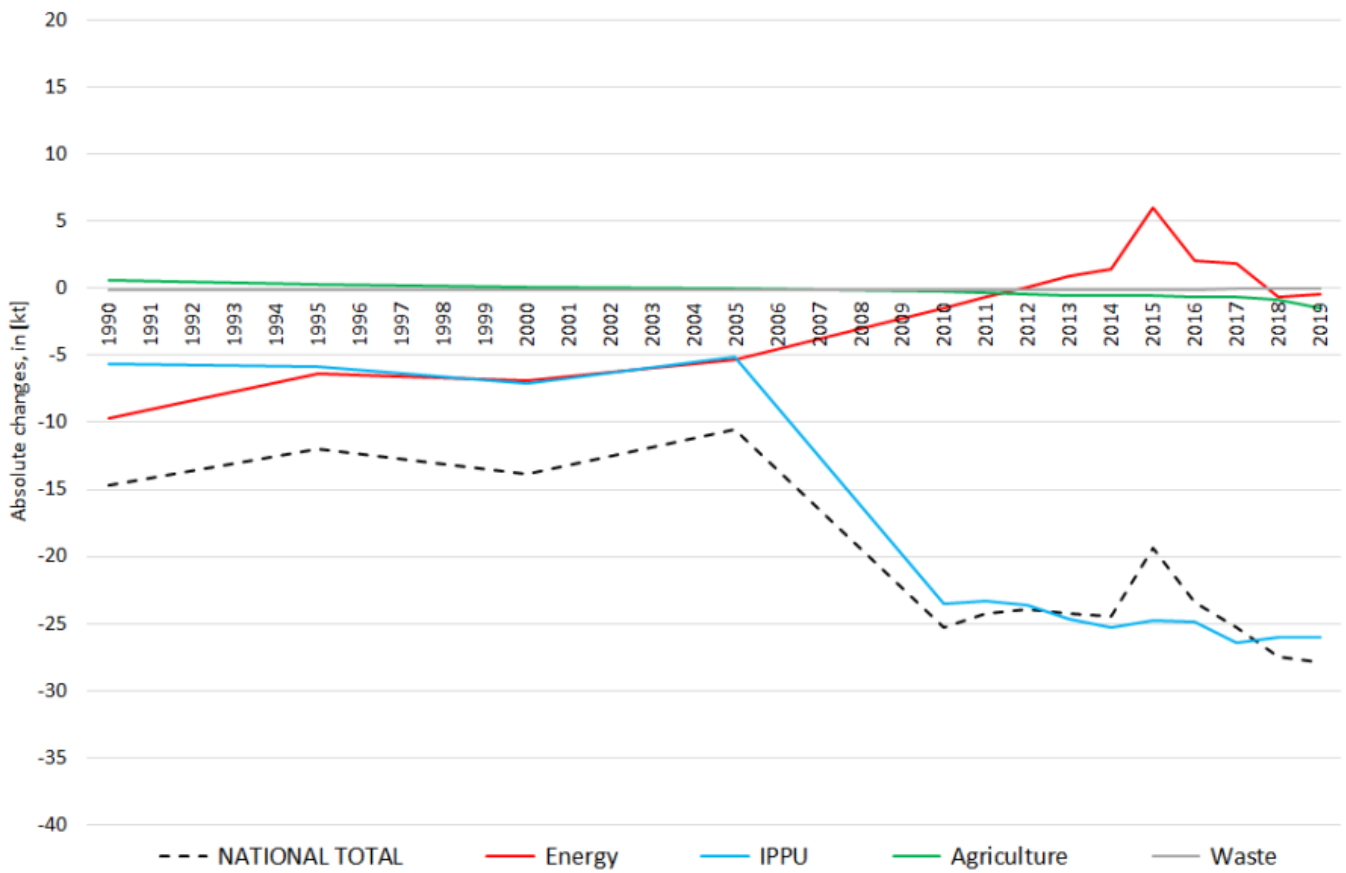


Recalculations - Nitrogen Oxides

Revision of NO_x emissions over time



The 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. Here, the strongest relative change occurs for **NFR 2.G with minus 58 %**.

Table 1: Changes of emission estimates 1990

absolute changes in emissions reported for 1990					Submission 2020	Submission 2021	Difference	Reasoning
NFR Code	[kt]			relative	see description and reasoning in:			
NATIONAL TOTAL	2.884,38	2.850,05	-34,33	-1,19%	sub-category chapters			
NFR 1 - Energy	2.634,24	2.601,88	-32,36	-1,23%	sub-category chapters			
1.A.2.g vii	49,60	50,23	0,63	1,28%	here			
1.A.3.a i(i)	3,88	3,94	0,06	1,54%	here			
1.A.3.a ii(i)	2,85	2,80	-0,05	-1,90%	here			
1.A.3.b i	808,22	765,68	-42,54	-5,26%	here			
1.A.3.b ii	41,49	31,49	-10,00	-24,11%	here			
1.A.3.b iii	485,89	506,00	20,11	4,14%	here			
1.A.3.b iv	2,61	2,45	-0,16	-6,18%	here			
1.A.4.a ii	11,52	11,60	0,08	0,67%	here			
1.A.4.b ii	0,07	0,06	-0,01	-8,44%	here			
1.A.4.c ii	49,78	49,31	-0,475	-0,95%	here			
NFR 2 - IPPU	106,06	106,37	0,31	0,29%	sub-category chapters			
2.C.3	NA	0,74	0,74		here			
2.G	0,74	0,31	-0,43	-58,05%	here			
NFR 3 - Agriculture	143,55	141,27	-2,28	-1,59%	sub-category chapters			
3.B.1.a	0,72	0,67	-0,05	-7,07%	here			
3.B.1.b	0,79	0,70	-0,09	-11,65%	here			
3.B.4.g iii	0,00337	0,00339	0,00002	0,48%	here			
3.D.a.1	85,31	86,57	1,256	1,47%	here			
3.D.a.2.a	46,65	43,46	-3,19	-6,84%	here			
3.D.a.3	8,65	8,44	-0,21	-2,42%	here			
NFR 5 - Waste	0,53	0,53	0,00	0,00%				
NFR 6 - Other	NA							

The changes within the **National Total reported for 2017 (+100.56 kt | +8.47 %)** 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. Here, the strongest relative change occurs for **NFR 1.B.2.a iv (+824,150 %)**.

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%	1.A.1.a - Public electricity and heat production
1.A.1.b						13,03	16,16	3,13	24,04%	1.A.1.b - Petroleum refining
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%	1.A.2.a - Stationary combustion in manufacturing industries and construction: Iron and Steel
1.A.2.b						0,99	1,02	0,03	2,54%	1.A.2.b - Stationary combustion in manufacturing industries and construction: Non-ferrous Metals
1.A.2.e						0,19	0,21	0,02	9,42%	1.A.2.e - Stationary combustion in manufacturing industries and construction: Food Processing, Beverages and Tobacco
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%	1.A.2.g viii - Stationary Combustion in Manufacturing Industries & Construction: Other
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.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						8,71	7,49	-1,23	-14,07%	here
1.A.3.d i(ii)						IE	IE	#WERT!	#WERT!	
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%	1.A.3.e i - Pipeline Transport]

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.3.e ii						NA	NA	#WERT!	#WERT!	1.A.3.e ii - Other Transport: Other]
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						0,4993	0,5009	0,0016	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						2,6931	2,7658	0,0727	2,70%	
1.A.5.a						0,25	0,25	0,00	0,22%	
1.A.5.b						2,87	2,87	0,00	0,07%	
1.B.1.a						NA	NA	#WERT!	#WERT!	1.B.1 - Solid Fuels
1.B.1.b						0,64	0,65	0,01	1,55%	1.B.1 - Solid Fuels
1.B.1.c						NA	NA	#WERT!	#WERT!	1.B.1 - Solid Fuels
1.B.2.a i						NA	NA	#WERT!	#WERT!	
1.B.2.a iv						0,7229	0,7227	-0,0001	0%	
1.B.2.a v						NA	NA	#WERT!	#WERT!	
1.B.2.b						0,03	0,03	0,00	0,00%	
1.B.2.c						0,38	0,38	0,00	0,00%	
1.B.2.d						NA	NA	#WERT!	#WERT!	
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%	2.A.3 - Glass Production
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%	
NFR 5 - Waste						0,830	0,830	0,000	0,00%	
NFR 6 - Other						NA				