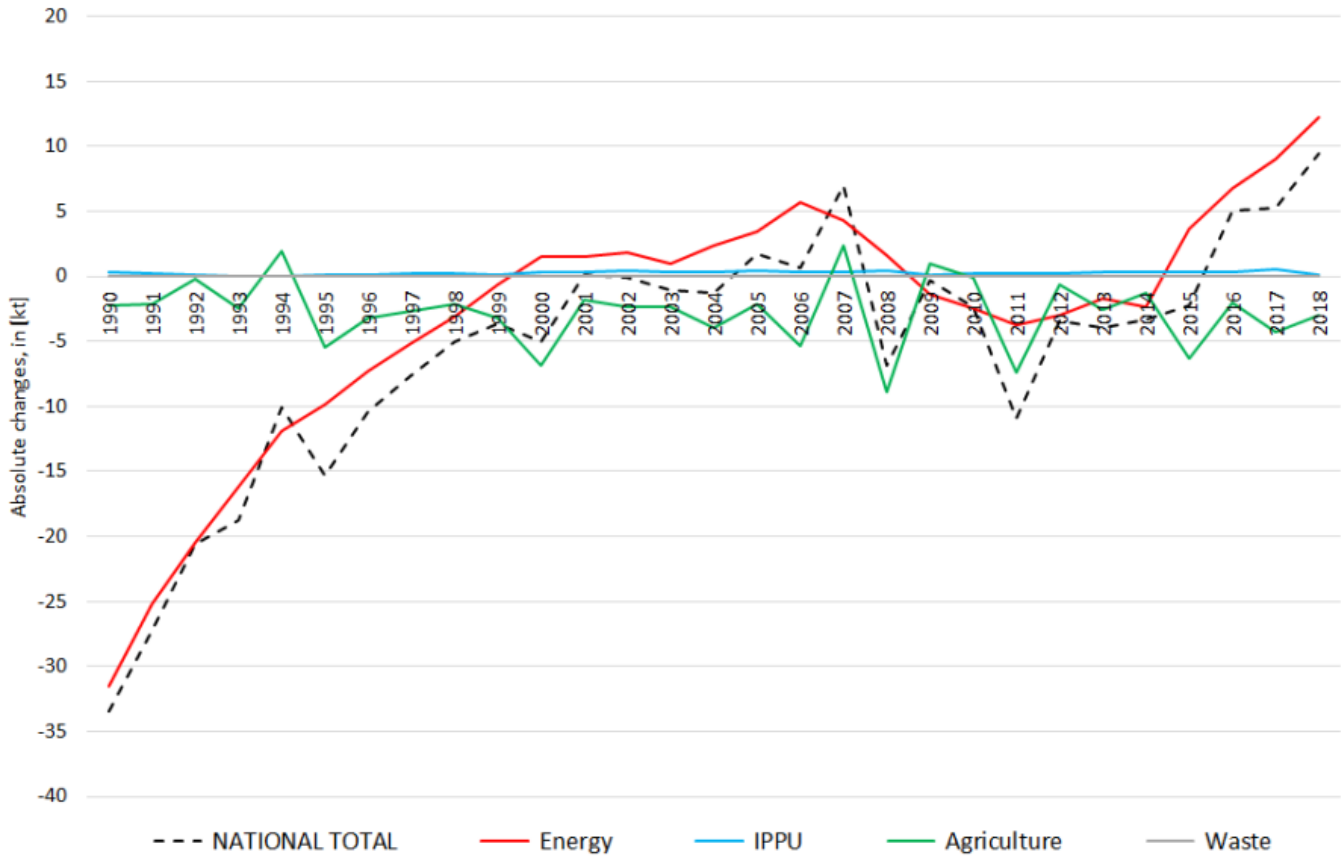
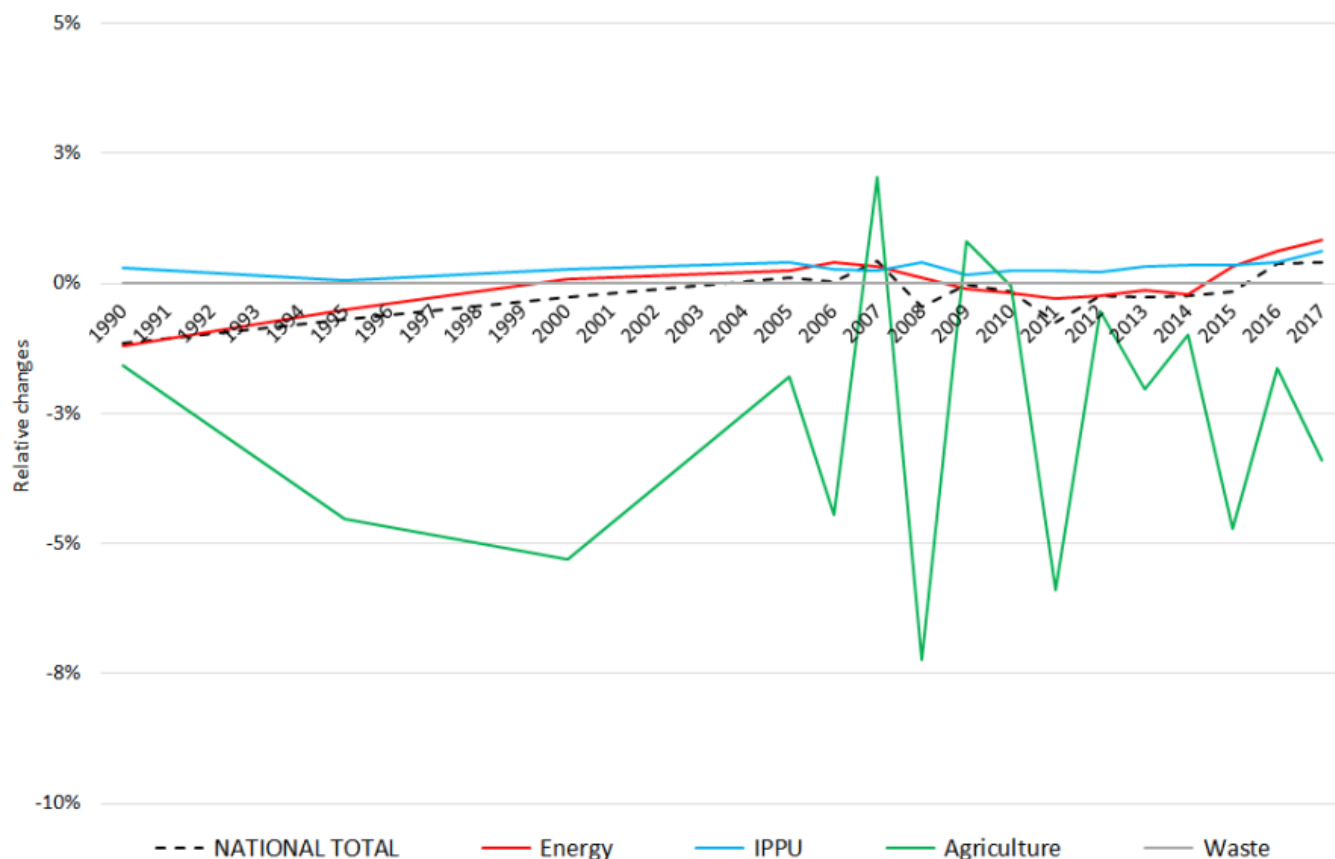


Recalculations - Nitrogen Oxides

Revision of NO_x emissions over time



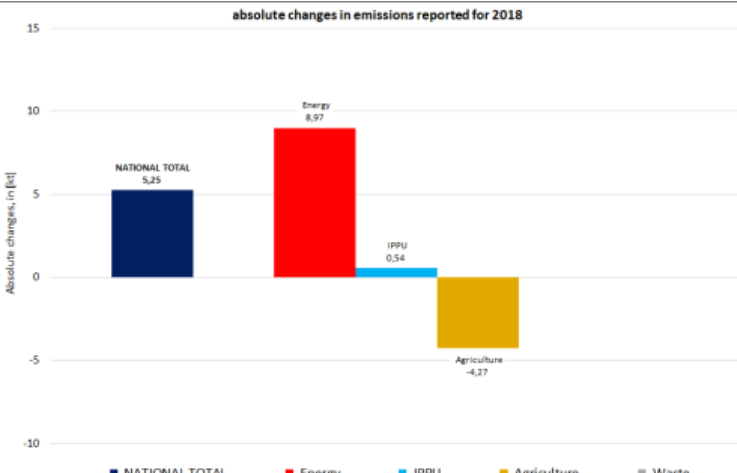


The changes within the **National Total reported for 1990 (-34 kt | -1.19 %)** are dominated by changes in **NFRs 1.A.3.b i, 1.A.3.b ii and 1.A.3.b iii** together with less significant revisions throughout NFRs 1, 2 and 3.

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	
Absolute changes, in [kt] NATIONAL TOTAL -33,47 Energy -31,50 IPPU 0,311 Agriculture -2,285 Waste 0,00									
NATIONAL TOTAL									
Energy									
IPPU									
Agriculture									
Waste									
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

					Submission 2020	Submission 2021	Difference		Reasoning
NFR Code	[kt]			relative	see description and reasoning in: sub-category chapters				
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				

absolute changes in emissions reported for 2018 <table><thead><tr><th>Category</th><th>Value (kt)</th></tr></thead><tbody><tr><td>NATIONAL TOTAL</td><td>5.25</td></tr><tr><td>Energy</td><td>8.97</td></tr><tr><td>IPPU</td><td>0.54</td></tr><tr><td>Agriculture</td><td>-4.27</td></tr><tr><td>Waste</td><td>0</td></tr></tbody></table>	Category	Value (kt)	NATIONAL TOTAL	5.25	Energy	8.97	IPPU	0.54	Agriculture	-4.27	Waste	0	Submission 2020	Submission 2021	Difference		Reasoning
Category	Value (kt)																
NATIONAL TOTAL	5.25																
Energy	8.97																
IPPU	0.54																
Agriculture	-4.27																
Waste	0																
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.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]												
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												

absolute changes in emissions reported for 2018 Absolute changes, in [kt] Legend: NATIONAL TOTAL (dark blue), Energy (red), IPPU (light blue), Agriculture (yellow), Waste (grey) Data values: NATIONAL TOTAL: 5.25, Energy: 8.97, IPPU: 0.54, Agriculture: -4.27, Waste: 0	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
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				