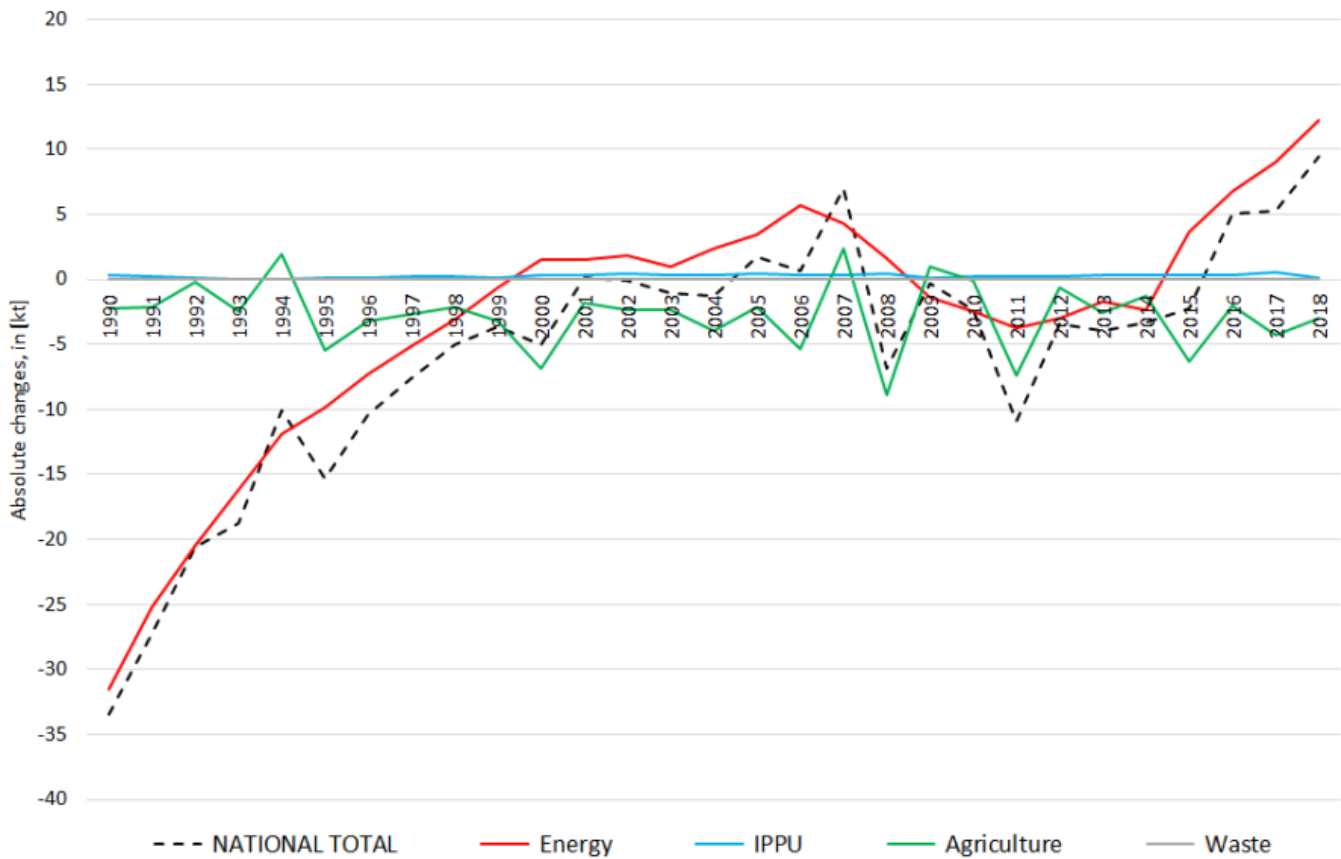
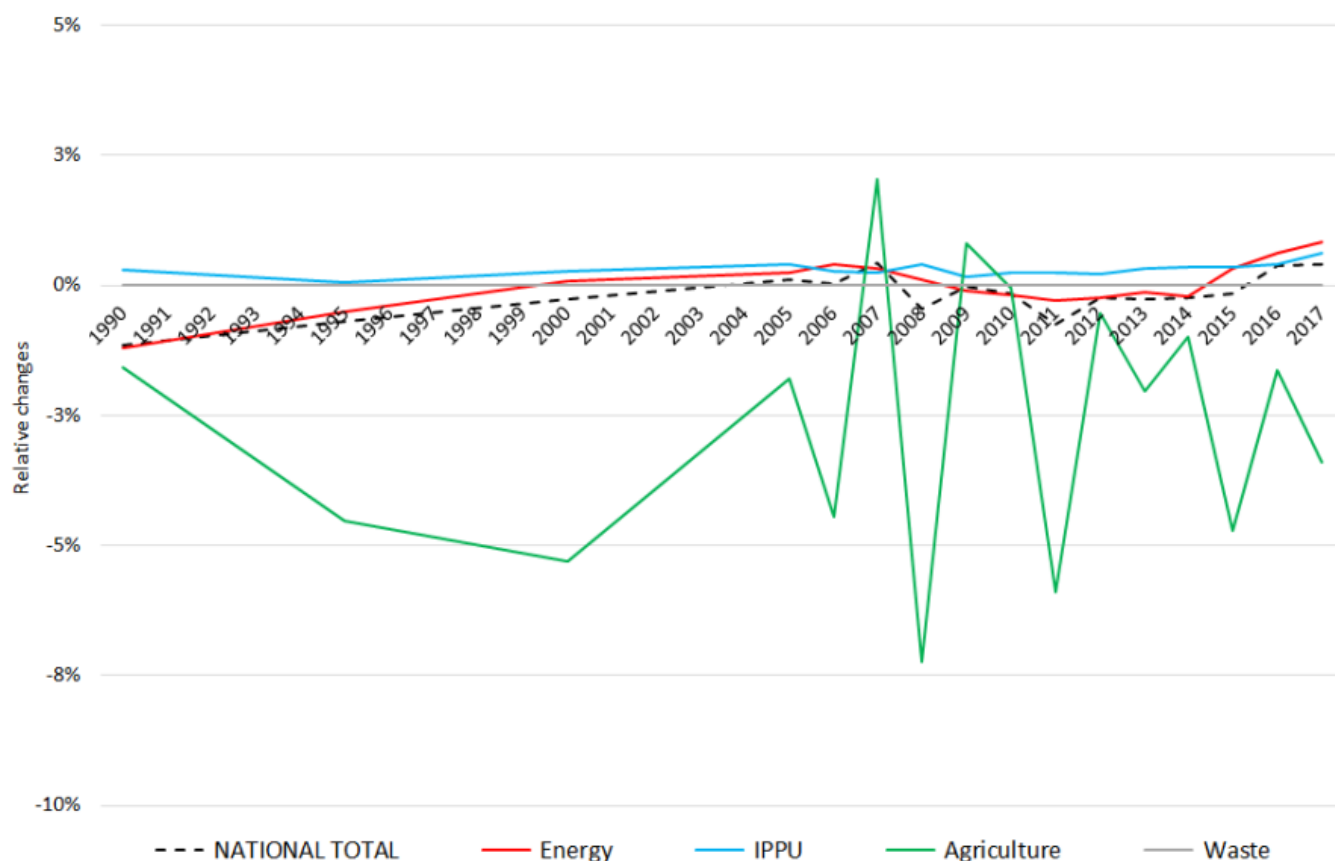


Recalculations - Nitrogen Oxides

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

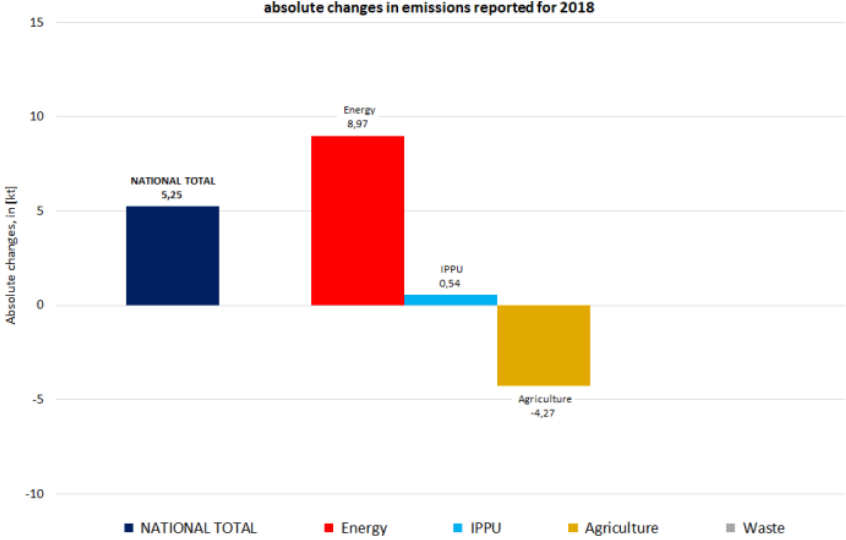
absolute changes in emissions reported for 1990					Submission 2020	Submission 2021	Difference	Reasoning												
<table><thead><tr><th>Category</th><th>Value [kt]</th></tr></thead><tbody><tr><td>NATIONAL TOTAL</td><td>-33,47</td></tr><tr><td>Energy</td><td>-31,50</td></tr><tr><td>IPPU</td><td>0,311</td></tr><tr><td>Agriculture</td><td>-2,285</td></tr><tr><td>Waste</td><td>0,00</td></tr></tbody></table>									Category	Value [kt]	NATIONAL TOTAL	-33,47	Energy	-31,50	IPPU	0,311	Agriculture	-2,285	Waste	0,00
Category	Value [kt]																			
NATIONAL TOTAL	-33,47																			
Energy	-31,50																			
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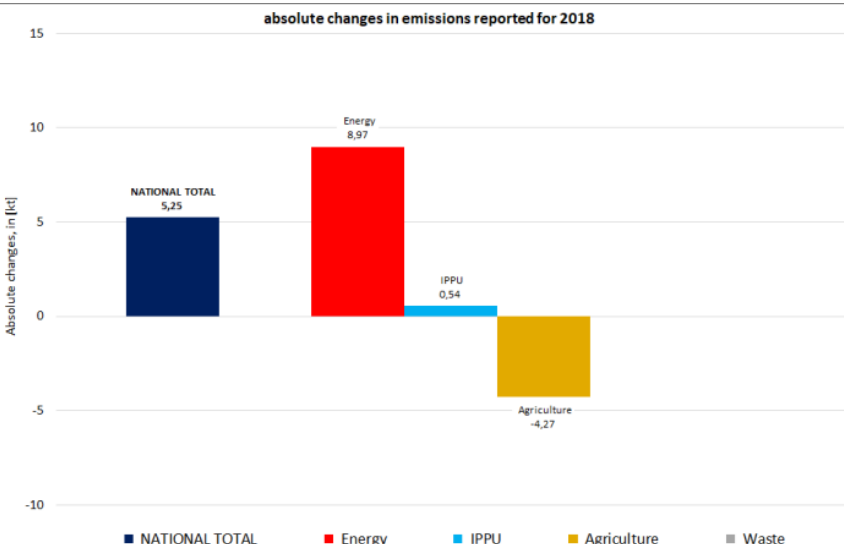
absolute changes in emissions reported for 1990 Legend: NATIONAL TOTAL (dark blue), Energy (red), IPPU (light blue), Agriculture (green), Waste (grey).						Submission 2020	Submission 2021	Difference		Reasoning
NFR Code		[kt]			relative	see description and reasoning in				
NATIONAL TOTAL		2.884,38	2.850,05	-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.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 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 strongest 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

absolute changes in emissions reported for 2018  ■ NATIONAL TOTAL ■ Energy ■ IPPU ■ Agriculture ■ Waste					Submission 2020	Submission 2021	Difference	Reasoning
NFR Code		[kt]			relative	see description and reasoning in sub-category chapters here		
NATIONAL TOTAL		1.202,28	1.210,50	8,22	0,68%			
NFR 1 - Energy		996,11	1.007,16	11,05	1,11%			
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						