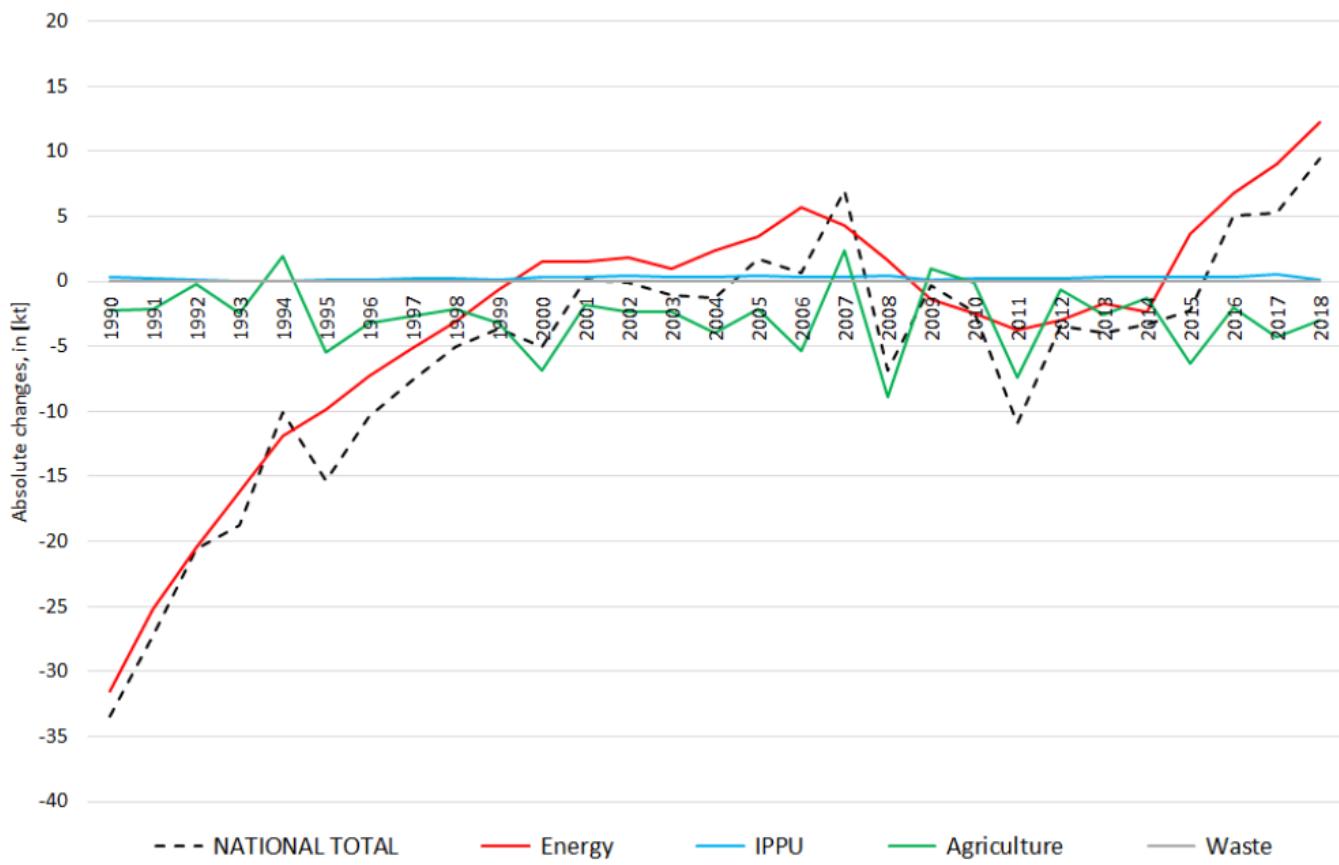
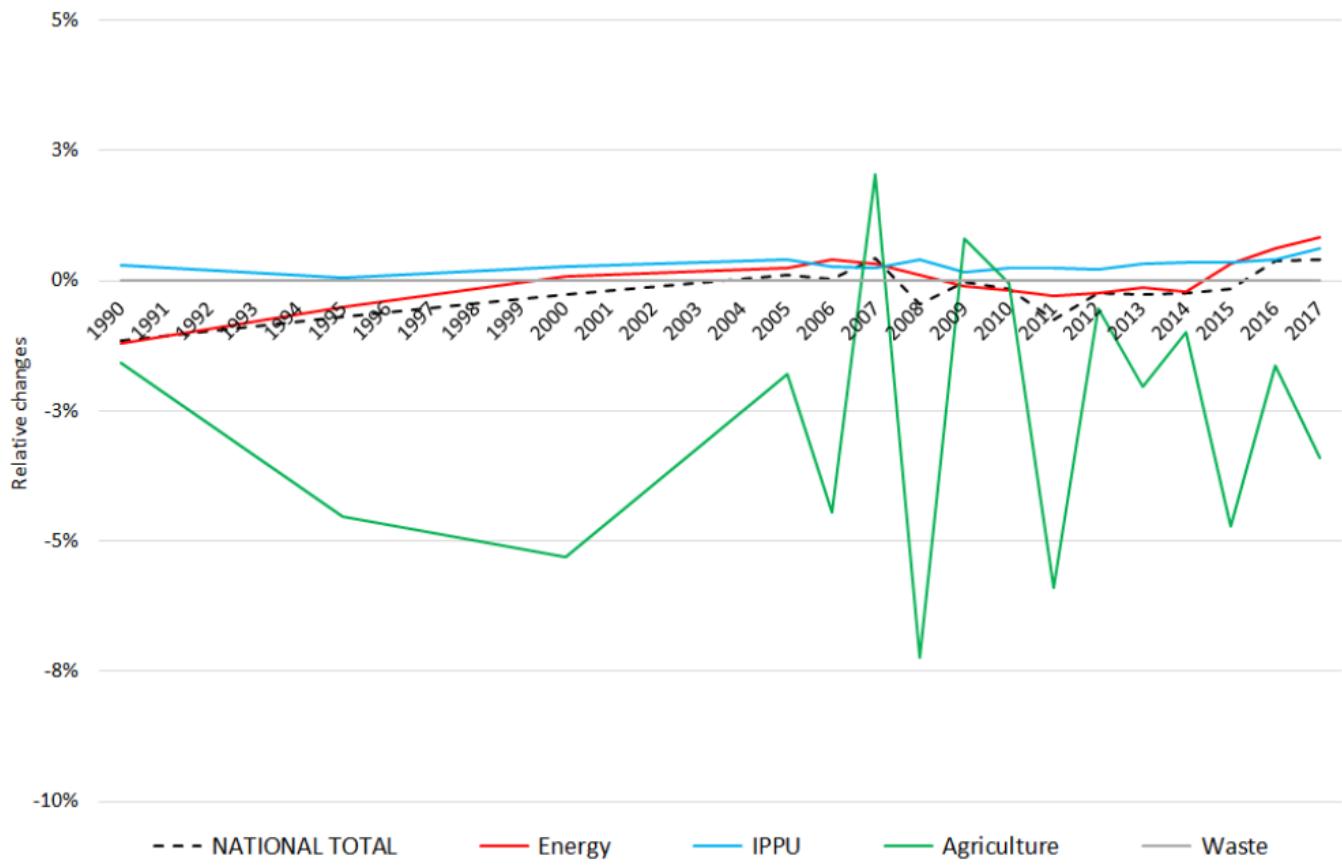


Recalculations - Nitrogen Oxides

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
NATIONAL TOTAL	-33,47				
Energy	-31,50				
IPPU	0,311				
Agriculture	-2,285				
Waste	0,00				
NFR Code					see description and reasoning in: sub-category chapters
NATIONAL TOTAL					sub-category chapters
NFR 1 - Energy					sub-category chapters
1.A.2.g vii	49,60				here
1.A.3.a i(i)	3,88				here
1.A.3.a ii(i)	2,85				here
	2.884,38	2.850,05	-34,33	-1,19%	
	2.634,24	2.601,88	-32,36	-1,23%	
	49,60	50,23	0,63	1,28%	
	3,88	3,94	0,06	1,54%	
	2,85	2,80	-0,05	-1,90%	

absolute changes in emissions reported for 1990		Submission 2020	Submission 2021	Difference	Reasoning
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: sub-category chapters
NATIONAL TOTAL		2.884,38	2.850,05	-34,33	-1,19%
NFR 1 - Energy		2.634,24	2.601,88	-32,36	-1,23%
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%
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%
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 2017

absolute changes in emissions reported for 2018					=				
					=	Submission 2019	Submission 2020	= Difference	= Reasoning
 NATIONAL TOTAL 5,25 Energy 8,97 IPPU 0,54 Agriculture -4,27					=				
= NFR Code					= [kt]	= relative			< see description and reasoning in:
~ NATIONAL TOTAL		> 1,187.50	> 1,288.07	> 100.56	> 8.47%				< sub-category chapters
NFR 1 - Energy					> 972.26	> 1,073.00	> 100.74	> 10.36%	< sub-category chapters
1.A.1.a		> 257.85	> 251.15	> -6.69	> -2.60%				< here]
1.A.1.b		> 16.88	> 14.64	> -2.24	> -13.26%				< here]
1.A.1.c		> 12.51	> 12.24	> -0.27	> -2.17%				< here]
1.A.2.a		> 4.26	> 4.21	> -0.05	> -1.10%				< here]
1.A.2.b		> 1.25	> 1.00	> -0.24	> -19.61%				< here]
1.A.2.e		> 0.22	> 0.19	> -0.02	> -11.33%				< here]
1.A.2.g vii		> 13.44	> 13.47	> 0.03	> 0.25%				< here]
1.A.2.g viii		> 75.07	> 72.79	> -2.28	> -3.04%				< here]
1.A.3.a i(i)		> 10.98	> 11.44	> 0.46	> 4.17%				< here]
1.A.3.a ii(i)		> 2.81	> 2.36	> -0.45	> -15.87%				< here]
1.A.3.b i		> 244.99	> 313.87	> 68.88	> 28.12%				< here]
1.A.3.b ii		> 32.64	> 65.78	> 33.14	> 102%				< here]
1.A.3.b iii		> 122.05	> 140.10	> 18.05	> 14.79%				< here]
1.A.3.b iv		> 2.74	> 1.74	> -1.00	> -36.58%				< here]
1.A.3.c		> 11.78	> 9.30	> -2.47	> -21.00%				< here]
1.A.3.d ii		> 27.06	> 26.11	> -0.95	> -3.52%				< here]
1.A.4.a i		> 19.34	> 21.31	> 1.96	> 10.15%				< here]
1.A.4.a ii		> 10.32	> 10.34	> 0.02	> 0.17%				< here]
1.A.4.b i		> 57.94	> 55.04	> -2.90	> -5.01%				< here]
1.A.4.b ii		> 0.5137	> 0.5135	> -0.0002	> -0.04%				< here]
1.A.4.c i		> 9.54	> 6.38	> -3.16	> -33.10%				< here]
1.A.4.c ii		> 30.65	> 30.82	> 0.16	> 0.54%				< here]
1.A.4.c iii		> 1.3267	> 1.3264	> -0.0003	> -0.02%				< here]
1.A.5.a		> 0.27	> 0.26	> -0.01	> -2.14%				< here]
1.A.5.b		> 3.44	> 3.36	> -0.08	> -2.43%				< here]
1.B.2.a iv		> 0.0001	> 0.7674	> 0.7673	> 824.150%				< here]
1.B.2.c		> 0.33	> 0.43	> 0.10	> 29.02%				< here]
NFR 2 - IPPU					> 88.67	> 88.68	> 0.01	> 0.02%	< sub-category chapters
2.A.2		> 4.123	> 4.122	> -0.002	> -0.04%				< here]
2.A.6		> 2.49	> 2.13	> -0.36	> -14.51%				< here]
2.G		> 0.434	> 0.435	> 0.001	> 0.13%				< here]
2.H.1		> 2.78	> 3.01	> 0.23	> 8.27%				< here]
NFR 3 - Agriculture					> 125.79	> 125.60	> -0.20	> -0.16%	< sub-category chapters

3.B.1.a	> 0.523	> 0.522	> -0.001	> -0.19%	< here]
3.B.1.b	> 0.574	> 0.581	> 0.007	> 1.15%	< here]
3.B.2	> 0.011	> 0.011	> 0.000	> 0.00%	< here]
3.B.3	> 0.3468	> 0.3464	> -0.0004	> -0.11%	< here]
3.B.4.g i	> 0.0171	> 0.0176	> 0.0005	> 3.06%	< here]
3.B.4.g ii	> 0.0174	> 0.0177	> 0.0003	> 1.85%	< here]
3.B.4.g iii	> 0.0103	> 0.0109	> 0.0006	> 5.34%	< here]
3.B.4.g iv	> 0.0023	> 0.0020	> -0.0002	> -9.49%	< here]
3.D.a.2.a	> 40.38	> 40.45	> 0.07	> 0.17%	< here]
3.D.a.2.b	> 0.74	> 0.56	> -0.18	> -24.29%	< here]
3.D.a.2.c	> 11.91	> 11.72	> -0.20	> -1.64%	< here]
3.D.a.3	> 5.64	> 5.75	> 0.11	> 1.88%	< here]
3.l	> 0.178	> 0.176	> -0.002	> -1.23%	<
NFR 5 - Waste	> 0.79	> 0.79	> 0.00	> 0.00%	<
NFR 6 - Other					= NA