

Recalculations - Nitrogen Oxides

Revision of NO_x emissions over time

[gallery size="medium"](#) : NO_x_absolut.png : NO_x_relativ.png [gallery](#)

The small changes within the **National Total reported for 1990 (-4.38 kt | -0.15 %)** 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 (+222,250 %)**.

Table 1: Changes of emission estimates 1990

	=				
	= Submission 2019	= Submission 2020	= Difference	= Reasoning	
= NFR Code		= [kt]	= relative	< see description and reasoning in:	
~ NATIONAL TOTAL	> 2,888.76	> 2,884.38	> -4.38	> -0.15%	< sub-category chapters
NFR 1 - Energy	> 2,638.80	> 2,634.24	> -4.56	> -0.17%	< sub-category chapters
1.A.3.a i(i)	> 3.76	> 3.88	> 0.12	> 3.21%	< here]
1.A.3.a ii(i)	> 3.32	> 2.85	> -0.47	> -14.09%	< here]
1.A.3.b i	> 856.17	> 808.22	> -47.95	> -5.60%	< here]
1.A.3.b ii	> 29.83	> 41.49	> 11.66	> 39.08%	< here]
1.A.3.b iii	> 452.63	> 485.89	> 33.25	> 7.35%	< here]
1.A.3.b iv	> 4.02	> 2.61	> -1.41	> -35.06%	< here]
1.B.2.a iv	> 0.0001	> 0.2380	> 0.2379	> <u>222,250%</u>	< here]
NFR 2 - IPPU	> 105.97	> 106.06	> 0.091	> 0.09%	< sub-category chapters
2.B.3	= NE	> 0.091	> 0.091	>	< here]
NFR 3 - Agriculture	> 143.46	> 143.55	> 0.09	> 0.06%	< sub-category chapters
3.B.1.b	> 0.7815	> 0.7876	> 0.0061	> 0.78%	< here]
3.B.4.g i	> 0.0144311	> 0.0144316	> 0.0000005	> 0.004%	< here]
3.B.4.g ii	> 0.0056201	> 0.0056204	> 0.0000004	> 0.01%	< here]
3.B.4.g iii	> 0.0033686	> 0.0033688	> 0.0000002	> 0.01%	< here]
3.B.4.g iv	> 0.0029	> 0.0025	> -0.0004	> -12.93%	< here]

3.D.a.2.a	> 46.62	> 46.65	> 0.024	> 0.05%	< here]
3.D.a.2.c	> 0.00187	> 0.00190	> 0.00003	> 1.76%	< here]
3.D.a.3	> 8.59	> 8.65	> 0.059	> 0.69%	< here]
3.I	> 0.000082	> 0.000083	> 0.000001	> 1.76%	<
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

	=				
	= Submission 2019	= Submission 2020	= Difference	= Reasoning	
= 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	> <u>824,150%</u>	< 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.I	> 0.178	> 0.176	> -0.002	> -1.23%	<
NFR 5 - Waste	> 0.79	> 0.79	> 0.00	> 0.00%	<
NFR 6 - Other					= NA