

Recalculations - Carbon monoxide (CO)

The significant changes in the **National Total reported for 1990 (-545 kt | -4 %)** are dominated by increased emission estimates from **NFRs 1.A.3.a ii(i), 1.A.3.b i and ii**. Additional smaller changes occur throughout NFR 1.

The most significant relative change occurs for **NFR 1.A.3.a ii(i) with minus 83 %**.

Table 1: Changes in emission estimates for 1990

NFR Sector	Submission 2020	Submission 2021	Difference		Reasoning
	[kt]		absolute	relative	see description and reasoning in:
NATIONAL TOTAL	13.171,06	13.046,02	-125,04	-0,95%	sub-category chapters
NFR 1 - Energy	11.934,21	11.772,32	-161,88	-1,36%	sub-category chapters
1.A.1.a	176,32	176,32	0,00	0,00%	here
1.A.1.b	9,02	9,02	0,00	0,00%	here
1.A.1.c	51,06	51,06	0,00	0,00%	here
1.A.2.a	70,91	70,91	0,00	0,00%	here
1.A.2.b	2,84	2,84	0,00	0,00%	here
1.A.2.c	IE	IE	#WERT!	#WERT!	here
1.A.2.d	IE	IE	#WERT!	#WERT!	here
1.A.2.e	1,06	1,06	0,00	0,00%	here
1.A.2.f	168,35	9,15	-159,20	-94,57%	here
1.A.2.g vii	82,70	82,70	0,00	0,00%	here
1.A.2.g viii	65,70	65,70	0,00	0,00%	here
1.A.3.a i(i)	3,81	3,64	-0,17	-4,53%	here
1.A.3.a ii(i)		8,47			here
1.A.3.b i	6.646,96	6.646,96	0,00	0,00%	here
1.A.3.b ii		315,30			here
1.A.3.b iii	135,43	135,46	0,02	0,02%	here
1.A.3.b iv	226,62	226,62	0,00	0,00%	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	11,34	12,54	1,20	10,58%	here
1.A.3.d i(ii)	IE	IE	#WERT!	#WERT!	
1.A.3.d ii	12,54	13,32	0,78	6,19%	here
1.A.3.e i	2,04	2,04	0,00	0,00%	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	1.338,59	1.338,59	0,00	0,00%	here
1.A.4.a ii	7,04	7,04	0,00	0,00%	here
1.A.4.b i	1.924,89	1.924,89	0,00	0,00%	here
1.A.4.b ii	56,25	54,00	-2,25	-4,00%	here
1.A.4.c i	148,84	148,84	0,00	0,00%	here
1.A.4.c ii	100,83	100,83	0,00	0,00%	here
1.A.4.c iii	0,08	0,04	-0,04	-51,14%	here
1.A.5.a	216,11	216,11	0,00	0,00%	here
1.A.5.b	117,04	116,99	-0,06	-0,05%	here
1.B.1.a	NA	NA	#WERT!	#WERT!	here
1.B.1.b	4,12	4,12	0,00	0,00%	here
1.B.1.c	NA	NA	#WERT!	#WERT!	here
1.B.2.a i	NA	NA	#WERT!	#WERT!	
1.B.2.a iv	0,45	0,45	0,00	0,00%	
1.B.2.a v	NA	NA	#WERT!	#WERT!	
1.B.2.b	27,43	27,43	0,00	0,00%	
1.B.2.c	2,07	2,07	0,00	0,00%	

	Submission 2020	Submission 2021	Difference		Reasoning
NFR Sector	[kt]		relative	see description and reasoning in:	
NATIONAL TOTAL	13.171,06	13.046,02	-125,04	-0,95%	sub-category chapters
NFR 1 - Energy	11.934,21	11.772,32	-161,88	-1,36%	sub-category chapters
1.B.2.d	NA	NA	#WERT!	#WERT!	
NFR 2 - IPPU	1.211,81	1.248,66	36,85	3,04%	sub-category chapters
2.A.1	IE	IE	#WERT!	#WERT!	here
2.A.2	IE	15,38	#WERT!	#WERT!	here
2.A.3	IE	1,72	#WERT!	#WERT!	here
2.A.5.a	NA	NA	#WERT!	#WERT!	here
2.A.5.b	NA	NA	#WERT!	#WERT!	here
2.A.5.c	NA	NA	#WERT!	#WERT!	here
2.A.6	IE	IE	#WERT!	#WERT!	here
2.B.1	NA	0,27	#WERT!	#WERT!	here
2.B.2	NA	NA	#WERT!	#WERT!	here
2.B.3	0,06	0,06	0,00	0,00%	here
2.B.5	NA	NA	#WERT!	#WERT!	here
2.B.6	NE	19,48	#WERT!	#WERT!	here
2.B.7	NA	NA	#WERT!	#WERT!	here
2.B.10.a	1,93	1,93	0,00	0,00%	here
2.B.10.b	NA	NA	#WERT!	#WERT!	here
2.C.1	1.079,56	1.079,56	0,00	0,00%	here
2.C.2	NE	NE	#WERT!	#WERT!	here
2.C.3	111,04	111,04	0,00	0,00%	here
2.C.4	NA	NA	#WERT!	#WERT!	here
2.C.5	NA	NA	#WERT!	#WERT!	here
2.C.6	NA	NA	#WERT!	#WERT!	here
2.C.7.a	NA	NA	#WERT!	#WERT!	here
2.C.7.b	NE	NE	#WERT!	#WERT!	here
2.C.7.c	NA	NA	#WERT!	#WERT!	here
2.C.7.d	NA	NA	#WERT!	#WERT!	here
2.D.3.a	NA	NA	#WERT!	#WERT!	here
2.D.3.b	IE	IE	#WERT!	#WERT!	here
2.D.3.c	NA	NA	#WERT!	#WERT!	here
2.D.3.d	NA	NA	#WERT!	#WERT!	here
2.D.3.e	NA	NA	#WERT!	#WERT!	here
2.D.3.f	NA	NA	#WERT!	#WERT!	here
2.D.3.g	NA	NA	#WERT!	#WERT!	here
2.D.3.h	NA	NA	#WERT!	#WERT!	here
2.D.3.i	NA	NA	#WERT!	#WERT!	here
2.G	19,23	19,23	0,00	0,00%	here
2.H.1	NE	NE	#WERT!	#WERT!	here
2.H.2	NA	NA	#WERT!	#WERT!	here
2.H.3	NA	NA	#WERT!	#WERT!	here
2.I	IE	IE	#WERT!	#WERT!	here
2.J	NE	NE	#WERT!	#WERT!	here
2.K	NA	NA	#WERT!	#WERT!	here
2.L	NA	NA	#WERT!	#WERT!	here
NFR 3 - Agriculture	0,00	0,00	0,00	#DIV/0!	sub-category chapters
3.B.1.a	NA	NA	#WERT!	#WERT!	here
3.B.1.b	NA	NA	#WERT!	#WERT!	here
3.B.2	NA	NA	#WERT!	#WERT!	here
3.B.3	NA	NA	#WERT!	#WERT!	here
3.B.4.a	NO	NO	#WERT!	#WERT!	here
3.B.4.d	NA	NA	#WERT!	#WERT!	here
3.B.4.e	NA	NA	#WERT!	#WERT!	here

	Submission 2020	Submission 2021	Difference		Reasoning
NFR Sector	[kt]		relative		see description and reasoning in:
NATIONAL TOTAL	13.171,06	13.046,02	-125,04	-0,95%	sub-category chapters
NFR 1 - Energy	11.934,21	11.772,32	-161,88	-1,36%	sub-category chapters
3.B.4.f	NA	NA	#WERT!	#WERT!	here
3.B.4.g i	NA	NA	#WERT!	#WERT!	here
3.B.4.g ii	NA	NA	#WERT!	#WERT!	here
3.B.4.g iii	NA	NA	#WERT!	#WERT!	here
3.B.4.g iv	NA	NA	#WERT!	#WERT!	here
3.B.4.h	NA	NA	#WERT!	#WERT!	here
3.D.a.1	NA	NA	#WERT!	#WERT!	here
3.D.a.2.a	NA	NA	#WERT!	#WERT!	here
3.D.a.2.b	NA	NA	#WERT!	#WERT!	here
3.D.a.2.c	NA	NA	#WERT!	#WERT!	here
3.D.a.3	NA	NA	#WERT!	#WERT!	here
3.D.a.4	NA	NA	#WERT!	#WERT!	here
3.D.b	NA	NA	#WERT!	#WERT!	here
3.D.c	NA	NA	#WERT!	#WERT!	here
3.D.d	NA	NA	#WERT!	#WERT!	here
3.D.e	NA	NA	#WERT!	#WERT!	here
3.D.f	NA	NA	#WERT!	#WERT!	here
3.F	NO	NO	#WERT!	#WERT!	
3.I	NA	NA	#WERT!	#WERT!	here
NFR 5 - Waste	25,04	25,04	0,00	0,00%	sub-category chapters
5.A	NA	NA	#WERT!	#WERT!	here
5.B.1	NA	NA	#WERT!	#WERT!	here
5.B.2	NA	NA	#WERT!	#WERT!	here
5.C.1.a	NO	NO	#WERT!	#WERT!	
5.C.1.b i	NO	NO	#WERT!	#WERT!	
5.C.1.b ii	NO	NO	#WERT!	#WERT!	
5.C.1.b iii	NO	NO	#WERT!	#WERT!	
5.C.1.b iv	NO	NO	#WERT!	#WERT!	
5.C.1.b v	0,02	0,02	0,00	0,00%	here
5.C.1.b vi	NA	NA	#WERT!	#WERT!	
5.C.2	25,02	25,02	0,00	0,00%	here
5.D.1	NA	NA	#WERT!	#WERT!	here
5.D.2	NA	NA	#WERT!	#WERT!	here
5.D.3	NO	NO	#WERT!	#WERT!	
5.E	NE	NE	#WERT!	#WERT!	here
NFR 6 - Other	NA				

Changes in the **National Total reported for 2018 (+20 kt | +0.68 %)** result from several revised estimates within **NFR 1 (+33 kt | +3.6 %)** together with a revision in **NFR 2.G (-13.3 kt or minus 50 %)**.

Table 2: Changes in emission estimates for 2018

	Submission 2020	Submission 2021	Difference		Reasoning
NFR Sector	[kt]		relative		see description and reasoning in:
NATIONAL TOTAL	2.937,91	2.957,80	19,89	0,68%	sub-category chapters
NFR 1 - Energy	2.082,15	2.115,39	33,24	1,60%	sub-category chapters
1.A.1.a	103,95	104,81	0,86	0,82%	here
1.A.1.b	1,79	2,11	0,32	18,07%	here
1.A.1.c	11,89	12,11	0,23	1,90%	here
1.A.2.a	32,89	32,99	0,10	0,30%	here
1.A.2.b	0,147	0,151	0,004	2,58%	here
1.A.2.e	0,079	0,082	0,003	4,38%	here
1.A.2.f	155,98	142,33	-13,65	-8,75%	here

	Submission 2020	Submission 2021	Difference		Reasoning
NFR Sector	[kt]			relative	see description and reasoning in:
NATIONAL TOTAL	2.937,91	2.957,80	19,89	0,68%	sub-category chapters
NFR 1 - Energy	2.082,15	2.115,39	33,24	1,60%	sub-category chapters
1.A.2.g vii	137,74	133,04	-4,70	-3,41%	here
1.A.2.g viii	18,77	18,09	-0,68	-3,60%	here
1.A.3.a i(i)	6,34	6,80	0,46	7,28%	here
1.A.3.a ii(i)	10,14	6,50	-3,64	-35,91%	here
1.A.3.b i	779,41	803,54	24,13	3,10%	here
1.A.3.b ii	42,20	37,26	-4,94	-11,70%	here
1.A.3.b iii	45,67	44,45	-1,22	-2,68%	here
1.A.3.b iv	71,98	73,28	1,31	1,82%	here
1.A.3.c	1,21	1,05	-0,16	-12,86%	here
1.A.3.d ii	3,47	4,01	0,54	15,63%	here
1.A.3.e i	0,26	0,26	0,01	2,11%	here
1.A.4.a i	49,23	44,17	-5,06	-10,28%	here
1.A.4.a ii	2,89	2,41	-0,48	-16,55%	here
1.A.4.b i	411,76	447,92	36,16	8,78%	here
1.A.4.b ii	112,03	114,19	2,16	1,93%	here
1.A.4.c i	13,93	13,84	-0,09	-0,67%	here
1.A.4.c ii	51,58	53,14	1,56	3,02%	here
1.A.4.c iii	0,22051	0,22647	0,01	2,70%	here
1.A.5.a	0,98	1,00	0,02	1,53%	here
NFR 2 - IPPU	836,206	822,861	-13,35	-1,60%	sub-category chapters
2.G	26,81	13,47	-13,34	-49,76%	here
NFR 3 - Agriculture	NA				
NFR 5 - Waste	19,55	19,55	0,00	0,00%	
NFR 6 - Other	NA				