

Recalculations - Carbon monoxide (CO)

The significant changes in the **National Total reported for 1990 (-125 kt | -1 %)** are dominated by a revision in NFR **1.A.2.f** (-159 kt | -95 %) together with re-allocated estimates for NFR **2.A.2** (IE → 15.4 kt). Furthermore, emissions from NFR **2.B.6** have been estimated for the first time (NE → 19.5 kt).

Additional smaller changes occur throughout NFRs 1 and 2.

Table 1: Changes in emission estimates for 1990

	Submission 2021	Submission 2022	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.A.2.f	168,35	9,15	-159,20	-94,57%	here
1.A.3.a i(i)	3,81	3,64	-0,17	-4,53%	here
1.A.3.a ii(i)	8,47	6,31	-2,16	-25,50%	here
1.A.3.b iii	135,43	135,46	0,02	0,02%	here
1.A.3.c	11,34	12,54	1,20	10,58%	here
1.A.3.d ii	12,54	13,32	0,78	6,19%	here
1.A.4.b ii	56,25	54,00	-2,25	-4,00%	here
1.A.4.c iii	0,08	0,04	-0,04	-51,14%	here
1.A.5.b	117,04	116,99	-0,06	-0,05%	here
NFR 2 - IPPU	1.211,81	1.248,66	36,85	3,04%	sub-category chapters
2.A.2	IE	15,38	15,38		here
2.A.3	IE	1,72	1,72		here
2.B.1	NA	0,27	0,27		here
2.B.6	NE	19,48	19,48		here
NFR 3 - Agriculture	NA				
NFR 5 - Waste	25,04	25,04	0,00	0,00%	
NFR 6 - Other	NA				

Changes in the **National Total** reported for **2019 (+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 2019

	Submission 2021	Submission 2022	Difference		Reasoning
NFR Sector	[kt]			relative	see description and reasoning in:
NATIONAL TOTAL	2.882,74	2.750,27	-132,47	-4,60%	sub-category chapters
NFR 1 - Energy	2.061,08	1.894,50	-166,59	-8,08%	sub-category chapters
1.A.1.a	94,47	91,42	-3,05	-3,23%	here
1.A.1.b	2,15	2,14	-0,01	-0,43%	here
1.A.1.c	10,74	12,92	2,18	20,27%	here
1.A.2.a	32,14	29,16	-2,98	-9,27%	here
1.A.2.b	0,150	0,146	-0,005	-3,15%	here
1.A.2.c	IE	IE	#WERT!	#WERT!	here
1.A.2.d	IE	IE	#WERT!	#WERT!	here
1.A.2.e	0,081	0,077	-0,005	-5,62%	here
1.A.2.f	142,36	1,42	-140,93	-99,00%	here
1.A.2.g vii	126,74	124,61	-2,13	-1,68%	here
1.A.2.g viii	17,93	17,77	-0,15	-0,85%	here
1.A.3.a i(i)	6,56	6,26	-0,30	-4,53%	here
1.A.3.a ii(i)	6,23	2,91	-3,33	-53,37%	here
1.A.3.b i	796,91	778,21	-18,70	-2,35%	here
1.A.3.b ii	38,16	38,03	-0,14	-0,36%	here
1.A.3.b iii	38,78	38,89	0,10	0,27%	here

1.A.3.b iv	71,40	70,62	-0,78	-1,10%	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	1,06	1,17	0,11	10,48%	here
1.A.3.d i(ii)	IE	IE	#WERT!	#WERT!	
1.A.3.d ii	3,60	3,81	0,21	5,75%	here
1.A.3.e i	0,24	0,24	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	46,73	47,70	0,98	2,09%	here
1.A.4.a ii	2,375	2,372	-0,003	-0,12%	here
1.A.4.b i	424,49	427,59	3,10	0,73%	here
1.A.4.b ii	113,39	111,87	-1,51	-1,33%	here
1.A.4.c i	14,03	15,05	1,02	7,30%	here
1.A.4.c ii	52,76	52,24	-0,52	-0,99%	here
1.A.4.c iii	0,05	0,03	-0,02	-33,19%	here
1.A.5.a	0,78	1,09	0,31	39,74%	here
1.A.5.b	11,49	11,44	-0,05	-0,46%	here
1.B.1.a	NA	NA	#WERT!	#WERT!	here
1.B.1.b	4,71	4,73	0,02	0,33%	here
1.B.1.c	NA	NA	#WERT!	#WERT!	here
1.B.2.a i	NA	NA	#WERT!	#WERT!	
1.B.2.a iv	0,3537	0,3538	0,0001	0,01%	
1.B.2.a v	NA	NA	#WERT!	#WERT!	
1.B.2.b	0,10	0,10	0,00	0,00%	
1.B.2.c	0,12009	0,12011	0,00002	0,01%	
1.B.2.d	NA	NA	#WERT!	#WERT!	
NFR 2 - IPPU	803,293	837,145	33,85	4,21%	sub-category chapters
2.A.1	IE	IE	#WERT!	#WERT!	here
2.A.2	IE	11,76	#WERT!	#WERT!	here
2.A.3	IE	0,87	#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	0,29	#WERT!	#WERT!	here
2.B.2	NA	NA	#WERT!	#WERT!	here
2.B.3	0,07	0,07	0,00	0,00%	here
2.B.5	NA	NA	#WERT!	#WERT!	here
2.B.6	NE	20,93	#WERT!	#WERT!	here
2.B.7	NA	NA	#WERT!	#WERT!	here
2.B.10.a	0,75	0,75	0,00	0,00%	here
2.B.10.b	NA	NA	#WERT!	#WERT!	here
2.C.1	697,73	697,73	0,00	0,00%	here
2.C.2	NE	NE	#WERT!	#WERT!	here
2.C.3	91,43	91,43	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	NO	NO	#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	13,31	13,31	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	NA				
NFR 5 - Waste	18,36	18,62	0,26	1,44%	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.2	18,27	18,53	0,26	1,44%	here
NFR 6 - Other	19,55	19,55	0,00	0,00%	