

## 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

NFR Sector	Submission 2021	Submission 2022	Difference		Reasoning see description and reasoning in:
	[kt]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>13.171,06</b>	<b>13.046,02</b>	<b>-125,04</b>	<b>-0,95%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>11.934,21</b>	<b>11.772,32</b>	<b>-161,88</b>	<b>-1,36%</b>	<b>sub-category chapters</b>
1.A.2.f	168,35	9,15	-159,20	-94,57%	<a href="#">here</a>
1.A.3.a i(i)	3,81	3,64	-0,17	-4,53%	<a href="#">here</a>
1.A.3.a ii(i)	8,47	6,31	-2,16	-25,50%	<a href="#">here</a>
1.A.3.b iii	135,43	135,46	0,02	0,02%	<a href="#">here</a>
1.A.3.c	11,34	12,54	1,20	10,58%	<a href="#">here</a>
1.A.3.d ii	12,54	13,32	0,78	6,19%	<a href="#">here</a>
1.A.4.b ii	56,25	54,00	-2,25	-4,00%	<a href="#">here</a>
1.A.4.c iii	0,08	0,04	-0,04	-51,14%	<a href="#">here</a>
1.A.5.b	117,04	116,99	-0,06	-0,05%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>1.211,81</b>	<b>1.248,66</b>	<b>36,85</b>	<b>3,04%</b>	<b>sub-category chapters</b>
2.A.2	IE	15,38	15,38		<a href="#">here</a>
2.A.3	IE	1,72	1,72		<a href="#">here</a>
2.B.1	NA	0,27	0,27		<a href="#">here</a>
2.B.6	NE	19,48	19,48		
<b>NFR 3 - Agriculture</b>		<b>NA</b>			
<b>NFR 5 - Waste</b>	<b>25,04</b>	<b>25,04</b>	<b>0,00</b>	<b>0,00%</b>	
<b>NFR 6 - Other</b>		<b>NA</b>			

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

NFR Sector	Submission 2020	Submission 2021	Difference		Reasoning see description and reasoning in:
	[kt]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>2.937,91</b>	<b>2.957,80</b>	<b>19,89</b>	<b>0,68%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>2.082,15</b>	<b>2.115,39</b>	<b>33,24</b>	<b>1,60%</b>	<b>sub-category chapters</b>
1.A.1.a	103,95	104,81	0,86	0,82%	<a href="#">here</a>
1.A.1.b	1,79	2,11	0,32	18,07%	<a href="#">here</a>
1.A.1.c	11,89	12,11	0,23	1,90%	<a href="#">here</a>
1.A.2.a	32,89	32,99	0,10	0,30%	<a href="#">here</a>
1.A.2.b	0,147	0,151	0,004	2,58%	<a href="#">here</a>
1.A.2.e	0,079	0,082	0,003	4,38%	<a href="#">here</a>
1.A.2.f	155,98	142,33	-13,65	-8,75%	<a href="#">here</a>
1.A.2.g vii	137,74	133,04	-4,70	-3,41%	<a href="#">here</a>
1.A.2.g viii	18,77	18,09	-0,68	-3,60%	<a href="#">here</a>
1.A.3.a i(i)	6,34	6,80	0,46	7,28%	<a href="#">here</a>
1.A.3.a ii(i)	10,14	6,50	-3,64	-35,91%	<a href="#">here</a>
1.A.3.b i	779,41	803,54	24,13	3,10%	<a href="#">here</a>
1.A.3.b ii	42,20	37,26	-4,94	-11,70%	<a href="#">here</a>
1.A.3.b iii	45,67	44,45	-1,22	-2,68%	<a href="#">here</a>
1.A.3.b iv	71,98	73,28	1,31	1,82%	<a href="#">here</a>
1.A.3.c	1,21	1,05	-0,16	-12,86%	<a href="#">here</a>

	Submission 2020	Submission 2021	Difference		Reasoning
<b>NFR Sector</b>	<b>[kt]</b>			<b>relative</b>	<b>see description and reasoning in:</b>
<b>NATIONAL TOTAL</b>	<b>2.937,91</b>	<b>2.957,80</b>	<b>19,89</b>	<b>0,68%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>2.082,15</b>	<b>2.115,39</b>	<b>33,24</b>	<b>1,60%</b>	<b>sub-category chapters</b>
1.A.3.d ii	3,47	4,01	0,54	15,63%	<a href="#">here</a>
1.A.3.e i	0,26	0,26	0,01	2,11%	<a href="#">here</a>
1.A.4.a i	49,23	44,17	-5,06	-10,28%	<a href="#">here</a>
1.A.4.a ii	2,89	2,41	-0,48	-16,55%	<a href="#">here</a>
1.A.4.b i	411,76	447,92	36,16	8,78%	<a href="#">here</a>
1.A.4.b ii	112,03	114,19	2,16	1,93%	<a href="#">here</a>
1.A.4.c i	13,93	13,84	-0,09	-0,67%	<a href="#">here</a>
1.A.4.c ii	51,58	53,14	1,56	3,02%	<a href="#">here</a>
1.A.4.c iii	0,22051	0,22647	0,01	2,70%	<a href="#">here</a>
1.A.5.a	0,98	1,00	0,02	1,53%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>836,206</b>	<b>822,861</b>	<b>-13,35</b>	<b>-1,60%</b>	<b>sub-category chapters</b>
2.G	26,81	13,47	-13,34	-49,76%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>19,55</b>	<b>19,55</b>	<b>0,00</b>	<b>0,00%</b>	
<b>NFR 6 - Other</b>	<b>NA</b>				