

# Recalculations - Carbon monoxide (CO)

The small changes in the **National Total** reported for **1990 (+1.11 kt or +0.01 %)** are dominated by revisions in NFRs **1.A.2.g vii, 1.A.3.d ii, 1.A.4.c ii and 1.B.1.b**.

Here, the strongest percental change occurs for **NFR 1.B.1.b with minus -93.1 %**

Table 1: Changes in emission estimates for 1990

NFR Sector	Submission 2024	Submission 2025	Difference		Reasoning
	[kt]		absolute	relative	see description and reasoning in:
<b>NATIONAL TOTAL</b>	<b>13,319.09</b>	<b>13,320.20</b>	<b>1.11</b>	<b>0.01%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>12,045.28</b>	<b>12,050.36</b>	<b>5.08</b>	<b>0.04%</b>	<b>sub-category chapters</b>
1.A.2.g vii	82.82	74.39	-8.43	-10.2%	<a href="#">here</a>
1.A.3.a i(i)	3.42	3.23	-0.19	-5.63%	<a href="#">here</a>
1.A.3.a ii(i)	6.18	6.25	0.07	1.12%	<a href="#">here</a>
1.A.3.c	12.54	12.58	0.04	0.34%	<a href="#">here</a>
1.A.3.d ii	13.32	21.53	8.22	61.7%	<a href="#">here</a>
1.A.4.a ii	7.03	6.17	-0.85	-12.1%	<a href="#">here</a>
1.A.4.c ii	100.78	110.83	10.05	9.97%	<a href="#">here</a>
1.B.1.b	4.12	0.29	-3.83	-93.1%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>1,248.77</b>	<b>1,248.77</b>	<b>0.00</b>	<b>0.00%</b>	
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>25.04</b>	<b>21.08</b>	<b>-3.97</b>	<b>-15.8%</b>	<b>sub-category chapters</b>
5.C.2	25.02	21.05	-3.97	-15.8%	<a href="#">here</a>
<b>NFR 6 - Other</b>	<b>NA</b>				

The small changes in the **National Total** reported for **2021 (+9.9 kt or +0.38 %)** are dominated by partly opposing revisions within NFRs **1.A.2.g vii (+39.42 kt), 1.A.3.b i (-18.7 kt), 1.A.4.c ii (+18.8 kt) and 2.C.3 (-30.5 kt)**.

Here, the most significant percental changes occur for **NFRs 1.A.3.d ii with plus 120 % and 1.B.1.b with minus 96 %**.

Table 2: Changes in emission estimates for 2021

NFR Sector	Submission 2024	Submission 2025	Difference		Reasoning
	[kt]		absolute	relative	see description and reasoning in:
<b>NATIONAL TOTAL</b>	<b>2,585.58</b>	<b>2,595.51</b>	<b>9.94</b>	<b>0.38%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>1,749.53</b>	<b>1,791.27</b>	<b>41.75</b>	<b>2.39%</b>	<b>sub-category chapters</b>
1.A.1.a	90.09	89.42	-0.67	-0.74%	<a href="#">here</a>
1.A.1.b	1.68	1.84	0.16	9.45%	<a href="#">here</a>
1.A.1.c	11.99	12.09	0.10	0.87%	<a href="#">here</a>
1.A.2.a	27.70	30.54	2.84	10.3%	<a href="#">here</a>
1.A.2.b	0.134	0.138	0.004	2.74%	<a href="#">here</a>
1.A.2.e	0.067	0.075	0.008	12.3%	<a href="#">here</a>
1.A.2.f	1.23	1.44	0.21	17.1%	<a href="#">here</a>
1.A.2.g vii	150.21	189.62	39.42	26.2%	<a href="#">here</a>
1.A.2.g viii	19.03	18.17	-0.87	-4.55%	<a href="#">here</a>
1.A.3.a i(i)	2.87	2.89	0.01	0.51%	<a href="#">here</a>
1.A.3.a ii(i)	1.83	1.93	0.10	5.64%	<a href="#">here</a>
1.A.3.b i	624.41	605.68	-18.73	-3.00%	<a href="#">here</a>
1.A.3.b ii	39.92	37.45	-2.47	-6.20%	<a href="#">here</a>
1.A.3.b iii	33.67	33.76	0.09	0.27%	<a href="#">here</a>
1.A.3.b iv	61.38	59.10	-2.29	-3.72%	<a href="#">here</a>
1.A.3.c	1.22	1.23	0.01	0.52%	<a href="#">here</a>
1.A.3.d ii	3.45	7.59	4.13	120%	<a href="#">here</a>
1.A.4.a i	51.38	51.08	-0.30	-0.57%	<a href="#">here</a>

	Submission 2024	Submission 2025	Difference		Reasoning
<b>NFR Sector</b>	<b>[kt]</b>			<b>relative</b>	<b>see description and reasoning in:</b>
<b>NATIONAL TOTAL</b>	<b>2,585.58</b>	<b>2,595.51</b>	<b>9.94</b>	<b>0.38%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>1,749.53</b>	<b>1,791.27</b>	<b>41.75</b>	<b>2.39%</b>	<b>sub-category chapters</b>
1.A.4.a ii	1.97	1.83	-0.14	-7.28%	<a href="#">here</a>
1.A.4.b i	444.88	446.48	1.60	0.36%	<a href="#">here</a>
1.A.4.b ii	78.85	82.48	3.63	4.60%	<a href="#">here</a>
1.A.4.c i	16.04	16.14	0.10	0.64%	<a href="#">here</a>
1.A.4.c ii	68.37	87.21	18.84	27.6%	<a href="#">here</a>
1.A.5.a	1.707	1.706	-0.001	-0.07%	<a href="#">here</a>
1.A.5.b	10.472	10.473	0.001	0.01%	<a href="#">here</a>
1.B.1.b	4.216	0.166	-4.050	-96.1%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>828.16</b>	<b>797.58</b>	<b>-30.58</b>	<b>-3.69%</b>	<b>sub-category chapters</b>
2.A.3	0.54	0.51	-0.03	-4.72%	<a href="#">here</a>
2.C.3	91.65	61.10	-30.55	-33.3%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>7.89</b>	<b>6.66</b>	<b>-1.24</b>	<b>-15.7%</b>	<b>sub-category chapters</b>
5.C.2	7.79	6.55	-1.24	-15.9%	<a href="#">here</a>
<b>NFR 6 - Other</b>	<b>NA</b>				