

# 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 2023	Submission 2024	Difference		Reasoning
	[kt]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>13,319.09</b>	<b>13,320.20</b>	<b>1.11</b>	<b>0.01%</b>	see description and reasoning in: sub-category chapters
<b>NFR 1 - Energy</b>	<b>12,045.28</b>	<b>12,050.36</b>	<b>5.08</b>	<b>0.04%</b>	sub-category chapters
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>	sub-category chapters
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 2023	Submission 2024	Difference		Reasoning
	[kt]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>2.585,58</b>	<b>2.595,51</b>	<b>9,94</b>	<b>0,38%</b>	sub-category chapters
<b>NFR 1 - Energy</b>	<b>1.749,53</b>	<b>1.791,27</b>	<b>41,75</b>	<b>2,39%</b>	sub-category chapters
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 2023	Submission 2024	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	<u>18,84</u>	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	<u>-96,1%</u>	<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	<u>-30,55</u>	-33,3%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</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>0,00</b>	<b>0,00</b>	<b>0,00</b>		