

for pollutant-specific information, please click:	<a href="#">NOx</a>	<a href="#">NMVOC</a>	<a href="#">SOx</a>	<a href="#">NH3</a>	<a href="#">PM2.5</a>	<a href="#">PM10</a>	<a href="#">TSP</a>	<a href="#">BC</a>	<a href="#">CO</a>	<a href="#">Pb</a>	<a href="#">Cd</a>	<a href="#">Hg</a>	<a href="#">As</a>	<a href="#">Cr</a>	<a href="#">Cu</a>	<a href="#">Ni</a>	<a href="#">Se</a>	<a href="#">Zn</a>	<a href="#">PCDD/F</a>	<a href="#">B[a]P</a>	<a href="#">B[b]F</a>	<a href="#">B[k]F</a>	<a href="#">I[x]P</a>	<a href="#">PAH1-4</a>	<a href="#">HCB</a>	<a href="#">PCB</a>
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## Recalculations - Copper (Cu)

With no reportable changes within the **National Total** reported for **1990**, the only notable percental changes occur for NFRs **1.A.2.g vii with -2.10 %**, **1.A.4.a ii with -2.16 %** and **1.A.4.c ii with plus 0.01 %** with mutually canceling absolute changes.

Table 1: Changes in emission estimates for 1990

NFR Sector	Submission 2024	Submission 2025	Difference		Reasoning
	[t]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>619.88</b>	<b>619.88</b>	<b>0.00</b>	<b>0.00%</b>	see description and reasoning in: sub-category chapters
<b>NFR 1 - Energy</b>	<b>538.01</b>	<b>538.01</b>	<b>0.00</b>	<b>0.00%</b>	sub-category chapters
1.A.2.g vii	0.00466	0.00456	-0.00010	-2.10%	<a href="#">here</a>
1.A.4.a ii	0.00091	0.00089	-0.00002	-2.16%	<a href="#">here</a>
1.A.4.c ii	1.11495	1.11506	0.00012	0.01%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>81.81</b>	<b>81.81</b>	<b>0.00</b>	<b>0.00%</b>	sub-category chapters
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>0.06</b>	<b>0.06</b>	<b>0.00</b>	<b>0.00%</b>	sub-category chapters
<b>NFR 6 - Other</b>	<b>NA</b>				

The changes within the **National Total** reported for **2022 (+4.3 t or +.77 %)** are dominated by a revision in NFR sub-category **1.A.3.c with +3.76 t** together with a variety of revisions throughout NFRs 1, 2 and 5.

However, the most significant percental change occurs in **NFR 1.A.1.b with plus 18.6 %**.

Table 2: Changes of emission estimates for 2022

NFR Sector	Submission 2023	Submission 2024	Difference		Reasoning
	[t]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>560.30</b>	<b>564.60</b>	<b>4.30</b>	<b>0.77%</b>	see description and reasoning in: sub-category chapters
<b>NFR 1 - Energy</b>	<b>491.53</b>	<b>495.99</b>	<b>4.47</b>	<b>0.91%</b>	sub-category chapters
1.A.1.a	7.37	7.34	-0.03	-0.45%	<a href="#">here</a>
1.A.1.b	4.37	5.19	0.81	18.58%	<a href="#">here</a>
1.A.1.c	0.048	0.052	0.004	9.09%	<a href="#">here</a>
1.A.2.g vii	0.0040	0.0038	-0.0002	-5.56%	<a href="#">here</a>
1.A.2.g viii	0.30	0.31	0.01	1.74%	<a href="#">here</a>
1.A.3.b i	0.1485	0.1486	0.0001	0.08%	<a href="#">here</a>
1.A.3.b ii	0.0242	0.0238	-0.0004	-1.73%	<a href="#">here</a>
1.A.3.b iii	0.076	0.077	0.001	0.90%	<a href="#">here</a>
1.A.3.b iv	0.0020	0.0019	-0.0001	-2.57%	<a href="#">here</a>
1.A.3.c	103.66	107.42	3.76	3.63%	<a href="#">here</a>
1.A.3.d ii	0.56	0.54	-0.02	-3.87%	<a href="#">here</a>
1.A.4.a i	1.82	1.75	-0.07	-3.70%	<a href="#">here</a>
1.A.4.a ii	0.00075	0.00063	-0.00012	-16.10%	<a href="#">here</a>
1.A.4.b i	2.69	2.87	0.18	6.58%	<a href="#">here</a>
1.A.4.b ii	0.26	0.23	-0.03	-10.35%	<a href="#">here</a>
1.A.4.c i	0.086	0.085	-0.001	-1.35%	<a href="#">here</a>
1.A.4.c ii	1.34	1.20	-0.14	-10.61%	<a href="#">here</a>
1.A.5.b	0.00292	0.00296	0.00003	1.18%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>68.7118</b>	<b>68.5308</b>	<b>-0.1809</b>	<b>-0.26%</b>	sub-category chapters

	Submission 2023	Submission 2024	Difference		Reasoning
<b>NFR Sector</b>	<b>[t]</b>			<b>relative</b>	<b>see description and reasoning in:</b>
<b>NATIONAL TOTAL</b>	<b>560.30</b>	<b>564.60</b>	<b>4.30</b>	<b>0.77%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>491.53</b>	<b>495.99</b>	<b>4.47</b>	<b>0.91%</b>	<b>sub-category chapters</b>
2.A.3	0.0646	0.0654	0.0008	1.24%	<a href="#">here</a>
2.G	51.7133	51.5316	-0.1817	-0.35%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>0.07</b>	<b>0.08</b>	<b>0.01</b>	<b>13.82%</b>	<b>sub-category chapters</b>
5.E	0.07	0.08	0.01	13.82%	<a href="#">here</a>
<b>NFR 6 - Other</b>	<b>NA</b>				