

## Recalculations - Copper (Cu)

The marginally small changes within the **1990 National Total (+0.005 t or +0.001 %)** result from a variety of revisions throughout NFRs 1, 2 and 5 - with the strongest percental change occurring in **NFR 1.A.3.a i(i) with minus 62 %**.

Table 1: Changes in emission estimates for 1990

NFR Sector	Submission 2023	Submission 2024	Difference		Reasoning
	[t]			relative	see description and reasoning in:
<b>NATIONAL TOTAL</b>	<b>619,879</b>	<b>619,883</b>	<b>0,005</b>	<b>0,001%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>538,009</b>	<b>538,015</b>	<b>0,006</b>	<b>0,001%</b>	<b>sub-category chapters</b>
1.A.2.g vii	0,007	0,005	-0,002	-28,8%	<a href="#">here</a>
1.A.3.a i(i)	0,000002	0,000001	-0,000001	-62,4%	<a href="#">here</a>
1.A.3.a ii(i)	0,000025	0,000027	0,000002	7,61%	<a href="#">here</a>
1.A.3.c	95,160	95,166	0,006	0,01%	<a href="#">here</a>
1.A.4.a ii	0,0010	0,0009	-0,0001	-12,7%	<a href="#">here</a>
1.A.4.c ii	1,1129	1,1149	0,0020	0,18%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>81,802</b>	<b>81,805</b>	<b>0,003</b>	<b>0,003%</b>	<b>sub-category chapters</b>
2.G	36,268	36,271	0,003	0,01%	<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>0,067</b>	<b>0,063</b>	<b>-0,004</b>	<b>-5,88%</b>	<b>sub-category chapters</b>
5.E	0,067	0,063	-0,004	-5,88%	<a href="#">here</a>
<b>NFR 6 - Other</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>		

The changes within the **National Total** reported for **2021 (+7.21 t or +1.37 %)** result from a **variety of revisions throughout NFRs 1, 2 and 5**.

The significant percental change occurring in NFR 1.A.3.b iii (+130 %) results from a correction of erroneous data reported with the previous submission.

Table 2: Changes of emission estimates for 2021

NFR Sector	Submission 2023	Submission 2024	Difference		Reasoning
	[t]			relative	see description and reasoning in:
<b>NATIONAL TOTAL</b>	<b>526,60</b>	<b>533,81</b>	<b>7,21</b>	<b>1,37%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>473,02</b>	<b>479,59</b>	<b>6,57</b>	<b>1,39%</b>	<b>sub-category chapters</b>
1.A.1.a	6,84	6,80	-0,04	-0,58%	<a href="#">here</a>
1.A.1.b	3,85	4,04	0,20	5,11%	<a href="#">here</a>
1.A.1.c	0,049	0,052	0,004	7,73%	<a href="#">here</a>
1.A.2.g vii	0,007	0,005	-0,002	-32,8%	<a href="#">here</a>
1.A.2.g viii	0,35	0,33	-0,02	-4,75%	<a href="#">here</a>
1.A.3.a i(i)	0,00000026	0,00000025	-0,00000001	-5,24%	<a href="#">here</a>
1.A.3.a ii(i)	0,000003302	0,000003305	0,000000002	0,07%	<a href="#">here</a>
1.A.3.b i	0,1435	0,1420	-0,0015	-1,04%	<a href="#">here</a>
1.A.3.b ii	0,02375	0,02331	-0,00045	-1,88%	<a href="#">here</a>
1.A.3.b iii	0,03	0,08	0,05	130%	<a href="#">here</a>
1.A.3.b iv	0,00180	0,00182	0,00002	1,02%	<a href="#">here</a>
1.A.3.b vi	361,03	361,57	0,54	0,15%	<a href="#">here</a>
1.A.3.b vii	0,03464	0,03466	0,00001	0,03%	<a href="#">here</a>
1.A.3.c	94,21	99,62	5,41	5,74%	<a href="#">here</a>
1.A.3.d ii	0,60	0,66	0,06	10,0%	<a href="#">here</a>
1.A.4.a i	1,81	1,85	0,04	2,14%	<a href="#">here</a>
1.A.4.a ii	0,00081	0,00086	0,00005	6,02%	<a href="#">here</a>
1.A.4.b i	2,642427	2,642429	0,000002	0,0001%	<a href="#">here</a>
1.A.4.b ii	0,25	0,26	0,01	4,60%	<a href="#">here</a>

	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>526,60</b>	<b>533,81</b>	<b>7,21</b>	<b>1,37%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>473,02</b>	<b>479,59</b>	<b>6,57</b>	<b>1,39%</b>	<b>sub-category chapters</b>
1.A.4.c i	0,0964	0,0967	0,0003	0,27%	<a href="#">here</a>
1.A.4.c ii	1,04	1,37	0,33	31,55%	<a href="#">here</a>
1.A.5.b	0,00264656	0,00264659	0,00000003	0,001%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>53,52</b>	<b>54,16</b>	<b>0,64178</b>	<b>1,20%</b>	<b>sub-category chapters</b>
2.A.3	0,06452	0,06457	0,00004	0,07%	<a href="#">here</a>
2.G	36,06899	36,71073	0,64173	1,78%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>0,069</b>	<b>0,065</b>	<b>-0,004</b>	<b>-5,72%</b>	<b>sub-category chapters</b>
5.E	0,069	0,065	-0,004	-5,72%	<a href="#">here</a>
<b>NFR 6 - Other</b>	<b>NA</b>				