

## Recalculations - Copper (Cu)

The marginal changes in the **National Total reported for 1990 (-0.31 t | -0.05 %)** are dominated by a revision in NFR **2.G** (-0.28 kt) as well as several less significant revisions throughout NFRs 1 and 2.

Here, the strongest percental change occurs for NFR **1.A.4.c iii with minus 52 %**.

Table 1: Changes in emission estimates for 1990

NFR Sector	Submission 2021	Submission 2022	Difference		Reasoning
	[t]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>620,19</b>	<b>619,88</b>	<b>-0,31</b>	<b>-0,05%</b>	see description and reasoning in: sub-category chapters
<b>NFR 1 - Energy</b>	<b>538,12</b>	<b>538,01</b>	<b>-0,11</b>	<b>-0,02%</b>	sub-category chapters
1.A.3.a i(i)	0,000003	0,000002	-0,000001	-33,33%	<a href="#">here</a>
1.A.3.a ii(i)	0,00004	0,00003	-0,00001	-33,33%	<a href="#">here</a>
1.A.3.c	95,153	95,160	0,01	0,01%	<a href="#">here</a>
1.A.3.d ii	1,51	1,39	-0,12	-7,98%	<a href="#">here</a>
1.A.4.b ii	0,559	0,574	0,02	2,79%	<a href="#">here</a>
1.A.4.c iii	0,015	0,007	-0,01	-52,49%	<a href="#">here</a>
1.A.5.b	0,024	0,017	-0,008	-31,40%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>82,00</b>	<b>81,81</b>	<b>-0,20</b>	<b>-0,24%</b>	sub-category chapters
2.A.3	0,85	0,94	0,09	10,47%	<a href="#">here</a>
2.G	36,56	36,27	-0,28	-0,78%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>0,07</b>	<b>0,07</b>	<b>0,00</b>	<b>0,00%</b>	
<b>NFR 6 - Other</b>	<b>NA</b>				

The changes in the **National Total reported for 2018 (-20.7 t | -3.4 %)** are dominated by a revision in **NFR 2.C.7.a with -17 kt or -48 %**).

Table 1: Changes in emission estimates for 2018

NFR Sector	Submission 2020	Submission 2021	Difference		Reasoning
	[t]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>606,15</b>	<b>585,42</b>	<b>-20,73</b>	<b>-3,42%</b>	see description and reasoning in: sub-category chapters
<b>NFR 1 - Energy</b>	<b>514,19</b>	<b>513,08</b>	<b>-1,11</b>	<b>-0,22%</b>	sub-category chapters
1.A.1.a	8,93	8,97	0,04	0,44%	<a href="#">here</a>
1.A.1.b	4,69	4,14	-0,55	-11,76%	<a href="#">here</a>
1.A.1.c	0,056	0,060	0,005	8,07%	<a href="#">here</a>
1.A.2.g vii	0,0060	0,0064	0,0005	7,89%	<a href="#">here</a>
1.A.2.g viii	0,40	0,34	-0,06	-15,31%	<a href="#">here</a>
1.A.3.a i(i)	NE	0,000001	0,000001		<a href="#">here</a>
1.A.3.a ii(i)	0,00004	0,00003	-0,00001	-36,34%	<a href="#">here</a>
1.A.3.b i	0,159	0,161	0,003	1,78%	<a href="#">here</a>
1.A.3.b ii	0,0211	0,0213	0,0002	1,09%	<a href="#">here</a>
1.A.3.b iii	0,088	0,085	-0,003	-3,34%	<a href="#">here</a>
1.A.3.b iv	0,0019	0,0019	0,0000	-1,19%	<a href="#">here</a>
1.A.3.b vi	396,525	395,938	-0,59	-0,15%	<a href="#">here</a>
1.A.3.b vii	0,0379	0,0378	-0,0001	-0,28%	<a href="#">here</a>
1.A.3.c	97,85	97,79	-0,06	-0,06%	<a href="#">here</a>
1.A.3.d ii	0,60	0,64	0,04	6,96%	<a href="#">here</a>
1.A.4.a i	1,58	1,39	-0,19	-12,01%	<a href="#">here</a>
1.A.4.a ii	0,0010	0,0008	-0,0001	-15,33%	<a href="#">here</a>
1.A.4.b i	2,15	2,36	0,21	9,95%	<a href="#">here</a>
1.A.4.b ii	0,36	0,34	-0,02	-4,76%	<a href="#">here</a>
1.A.4.c i	0,0824	0,0825	0,0001	0,13%	<a href="#">here</a>

	Submission 2020	Submission 2021	Difference		Reasoning
<b>NFR Sector</b>	<b>[t]</b>			<b>relative</b>	<b>see description and reasoning in:</b>
<b>NATIONAL TOTAL</b>	<b>606,15</b>	<b>585,42</b>	<b>-20,73</b>	<b>-3,42%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>514,19</b>	<b>513,08</b>	<b>-1,11</b>	<b>-0,22%</b>	<b>sub-category chapters</b>
1.A.4.c ii	0,60	0,66	0,06	9,18%	<a href="#">here</a>
1.A.4.c iii	0,050	0,052	0,002	3,03%	<a href="#">here</a>
1.A.5.b	0,0090	0,0092	0,0003	2,91%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>91,89</b>	<b>72,27</b>	<b>-19,62</b>	<b>-21,35%</b>	<b>sub-category chapters</b>
2.A.3	0,410	0,408	-0,002	-0,38%	<a href="#">here</a>
2.C.7.a	35,22	18,19	-17,02	-48,34%	<a href="#">here</a>
2.G	56,24	53,65	-2,59	-4,60%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>0,07</b>	<b>0,07</b>	<b>0,00</b>	<b>0,00%</b>	
<b>NFR 6 - Other</b>	<b>NA</b>				