

# Recalculations - Copper (Cu)

The marginal changes in the **National Total reported for 1990 (-0.31 t or -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]             |                 |              | relative      | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>620,19</b>   | <b>619,88</b>   | <b>-0,31</b> | <b>-0,05%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>538,12</b>   | <b>538,01</b>   | <b>-0,11</b> | <b>-0,02%</b> | <b>sub-category chapters</b>      |
| 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> | <b>sub-category chapters</b>      |
| 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 **2019 (+3.91 t or 0.67 %)** are dominated by a revision in NFRs **2.G with +4.18 t** and **2.A.3 with -0.35 t**.

The most significant percental changes occur for **NFRs 1.A.3.a i(i), 1.A.3.a ii(i) and 2.A.3 with minus 84 %** each.

Table 2: Changes in emission estimates for 2019

| NFR Sector            | Submission 2021 | Submission 2022 | Difference  |              | Reasoning                         |
|-----------------------|-----------------|-----------------|-------------|--------------|-----------------------------------|
|                       | [t]             |                 |             | relative     | see description and reasoning in: |
| <b>NATIONAL TOTAL</b> | <b>587,38</b>   | <b>591,28</b>   | <b>3,91</b> | <b>0,67%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b> | <b>517,86</b>   | <b>517,93</b>   | <b>0,07</b> | <b>0,01%</b> | <b>sub-category chapters</b>      |
| 1.A.1.a               | 7,00            | 7,11            | 0,11        | 1,50%        | <a href="#">here</a>              |
| 1.A.1.b               | 4,05            | 3,94            | -0,11       | -2,74%       | <a href="#">here</a>              |
| 1.A.1.c               | 0,058           | 0,056           | 0,00        | -2,95%       | <a href="#">here</a>              |
| 1.A.2.g vii           | 0,00646         | 0,00647         | 0,00001     | 0,08%        | <a href="#">here</a>              |
| 1.A.2.g viii          | 0,329           | 0,326           | -0,003      | -0,89%       | <a href="#">here</a>              |
| 1.A.3.a i(i)          | 0,0000011       | 0,0000002       | -0,0000009  | -83,52%      | <a href="#">here</a>              |
| 1.A.3.a ii(i)         | 0,000024        | 0,000004        | -0,000020   | -83,69%      | <a href="#">here</a>              |
| 1.A.3.b i             | 0,1616          | 0,1618          | 0,0001      | 0,08%        | <a href="#">here</a>              |
| 1.A.3.b ii            | 0,0220          | 0,0217          | -0,0002     | -1,10%       | <a href="#">here</a>              |
| 1.A.3.b iii           | 0,0868          | 0,0867          | -0,0001     | -0,15%       | <a href="#">here</a>              |
| 1.A.3.b iv            | 0,00194         | 0,00192         | -0,00002    | -1,10%       | <a href="#">here</a>              |
| 1.A.3.c               | 100,89          | 100,94          | 0,05        | 0,05%        | <a href="#">here</a>              |
| 1.A.3.d ii            | 0,60            | 0,65            | 0,05        | 9,14%        | <a href="#">here</a>              |
| 1.A.4.a ii            | 0,000810        | 0,000811        | 0,000001    | 0,18%        | <a href="#">here</a>              |
| 1.A.4.b i             | 2,379           | 2,380           | 0,001       | 0,03%        | <a href="#">here</a>              |
| 1.A.4.b ii            | 0,34            | 0,35            | 0,01        | 1,85%        | <a href="#">here</a>              |
| 1.A.4.c ii            | 0,656           | 0,644           | -0,012      | -1,82%       | <a href="#">here</a>              |
| 1.A.4.c iii           | 0,0105          | 0,0066          | -0,0039     | -37,07%      | <a href="#">here</a>              |
| 1.A.5.b               | 0,012           | 0,004           | -0,008      | -68,89%      | <a href="#">here</a>              |

|                            | Submission 2021 | Submission 2022 | Difference  |              | Reasoning                         |
|----------------------------|-----------------|-----------------|-------------|--------------|-----------------------------------|
| NFR Sector                 | [t]             |                 |             | relative     | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>587,38</b>   | <b>591,28</b>   | <b>3,91</b> | <b>0,67%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>517,86</b>   | <b>517,93</b>   | <b>0,07</b> | <b>0,01%</b> | <b>sub-category chapters</b>      |
| <b>NFR 2 - IPPU</b>        | <b>69,45</b>    | <b>73,28</b>    | <b>3,83</b> | <b>5,52%</b> | <b>sub-category chapters</b>      |
| 2.A.3                      | 0,413           | 0,065           | -0,35       | -84,30%      | <a href="#">here</a>              |
| 2.G                        | 52,59           | 56,77           | 4,18        | 7,95%        | <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>       |                 |             |              |                                   |