

# Recalculations - Copper (Cu)

The changes in the **National Total reported for 1990 (-12.6 t | -2 %)** are dominated by a revision in **NFR 2.C.7.a with -10.5 kt or -19.8 %**).

Table 1: Changes in emission estimates for 1990

|                            | Submission 2020 | Submission 2021 | Difference   |               | Reasoning                         |
|----------------------------|-----------------|-----------------|--------------|---------------|-----------------------------------|
| NFR Sector                 | [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.1.a                    | 70,923          | 70,923          | 0,00         | 0,00%         | <a href="#">here</a>              |
| 1.A.1.b                    | 4,990           | 4,990           | 0,00         | 0,00%         | <a href="#">here</a>              |
| 1.A.1.c                    | 62,771          | 62,771          | 0,00         | 0,00%         | <a href="#">here</a>              |
| 1.A.2.a                    | NE              | NE              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 1.A.2.b                    | NE              | NE              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 1.A.2.c                    | IE              | IE              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 1.A.2.d                    | IE              | IE              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 1.A.2.e                    | NE              | NE              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 1.A.2.f                    | IE              | IE              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 1.A.2.g vii                | 0,0065          | 0,0065          | 0,00         | 0,00%         | <a href="#">here</a>              |
| 1.A.2.g viii               | 28,833          | 28,833          | 0,00         | 0,00%         | <a href="#">here</a>              |
| 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 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

|                       | Submission 2020 | Submission 2021 | Difference    |               | Reasoning                         |
|-----------------------|-----------------|-----------------|---------------|---------------|-----------------------------------|
| NFR Sector            | [t]             |                 |               | relative      | see description and reasoning in: |
| <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.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>              |

|                            | Submission 2020 | Submission 2021 | Difference    |                | Reasoning                         |
|----------------------------|-----------------|-----------------|---------------|----------------|-----------------------------------|
| NFR Sector                 | [t]             |                 |               | relative       | see description and reasoning in: |
| <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.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>              |
| 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>       |                 |               |                |                                   |