

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] | | absolute | relative | |
| NATIONAL TOTAL | 619.879 | 619.883 | 0.005 | 0.001% | see description and reasoning in: sub-category chapters |
| NFR 1 - Energy | 538.009 | 538.015 | 0.006 | 0.001% | sub-category chapters |
| 1.A.2.g vii | 0.007 | 0.005 | -0.002 | -28.8% | here |
| 1.A.3.a i(i) | 0.000002 | 0.000001 | -0.000001 | -62.4% | here |
| 1.A.3.a ii(i) | 0.000025 | 0.000027 | 0.000002 | 7.61% | here |
| 1.A.3.c | 95.160 | 95.166 | 0.006 | 0.01% | here |
| 1.A.4.a ii | 0.0010 | 0.0009 | -0.0001 | -12.7% | here |
| 1.A.4.c ii | 1.1129 | 1.1149 | 0.0020 | 0.18% | here |
| NFR 2 - IPPU | 81.802 | 81.805 | 0.003 | 0.003% | sub-category chapters |
| 2.G | 36.268 | 36.271 | 0.003 | 0.01% | here |
| NFR 3 - Agriculture | NA | | | | |
| NFR 5 - Waste | 0.067 | 0.063 | -0.004 | -5.88% | sub-category chapters |
| 5.E | 0.067 | 0.063 | -0.004 | -5.88% | here |
| NFR 6 - Other | NA | | | | |

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] | | absolute | relative | |
| NATIONAL TOTAL | 526.60 | 533.81 | 7.21 | 1.37% | see description and reasoning in: sub-category chapters |
| NFR 1 - Energy | 473.02 | 479.59 | 6.57 | 1.39% | sub-category chapters |
| 1.A.1.a | 6.84 | 6.80 | -0.04 | -0.58% | here |
| 1.A.1.b | 3.85 | 4.04 | 0.20 | 5.11% | here |
| 1.A.1.c | 0.049 | 0.052 | 0.004 | 7.73% | here |
| 1.A.2.g vii | 0.007 | 0.005 | -0.002 | -32.8% | here |
| 1.A.2.g viii | 0.35 | 0.33 | -0.02 | -4.75% | here |
| 1.A.3.a i(i) | 0.00000026 | 0.00000025 | -0.00000001 | -5.24% | here |
| 1.A.3.a ii(i) | 0.000003302 | 0.000003305 | 0.000000002 | 0.07% | here |
| 1.A.3.b i | 0.1435 | 0.1420 | -0.0015 | -1.04% | here |
| 1.A.3.b ii | 0.02375 | 0.02331 | -0.00045 | -1.88% | here |
| 1.A.3.b iii | 0.03 | 0.08 | 0.05 | 130% | here |
| 1.A.3.b iv | 0.00180 | 0.00182 | 0.00002 | 1.02% | here |
| 1.A.3.b vi | 361.03 | 361.57 | 0.54 | 0.15% | here |
| 1.A.3.b vii | 0.03464 | 0.03466 | 0.00001 | 0.03% | here |
| 1.A.3.c | 94.21 | 99.62 | 5.41 | 5.74% | here |
| 1.A.3.d ii | 0.60 | 0.66 | 0.06 | 10.0% | here |
| 1.A.4.a i | 1.81 | 1.85 | 0.04 | 2.14% | here |
| 1.A.4.a ii | 0.00081 | 0.00086 | 0.00005 | 6.02% | here |
| 1.A.4.b i | 2.642427 | 2.642429 | 0.000002 | 0.0001% | here |
| 1.A.4.b ii | 0.25 | 0.26 | 0.01 | 4.60% | here |

| | Submission 2023 | Submission 2024 | Difference | | Reasoning |
|----------------------------|-----------------|-----------------|----------------|-----------------|--|
| NFR Sector | [t] | | | relative | see description and reasoning in: |
| NATIONAL TOTAL | 526.60 | 533.81 | 7.21 | 1.37% | sub-category chapters |
| NFR 1 - Energy | 473.02 | 479.59 | 6.57 | 1.39% | sub-category chapters |
| 1.A.4.c i | 0.0964 | 0.0967 | 0.0003 | 0.27% | here |
| 1.A.4.c ii | 1.04 | 1.37 | 0.33 | 31.6% | here |
| 1.A.5.b | 0.00264656 | 0.00264659 | 0.00000003 | 0.001% | here |
| NFR 2 - IPPU | 53.52 | 54.16 | 0.64178 | 1.20% | sub-category chapters |
| 2.A.3 | 0.06452 | 0.06457 | 0.00004 | 0.07% | here |
| 2.G | 36.06899 | 36.71073 | 0.64173 | 1.78% | here |
| NFR 3 - Agriculture | NA | | | | |
| NFR 5 - Waste | 0.069 | 0.065 | -0.004 | -5.72% | sub-category chapters |
| 5.E | 0.069 | 0.065 | -0.004 | -5.72% | here |
| NFR 6 - Other | NA | | | | |