

## Recalculations - Carbon monoxide (CO)

The small changes in the **National Total** reported for **1990 (+0.33 kt or +0.002 %)** result from revisions in NFR sub-categories **1.A.2.g vii**, **1.A.4.a ii**, and **1.A.4.c ii**.

Table 1: Changes in emission estimates for 1990

| NFR Sector                 | Submission 2024  | Submission 2025  | Difference  |               | Reasoning  |
|----------------------------|------------------|------------------|-------------|---------------|--|
|                            | [kt]             |                  |             | relative      |  |
| <b>NATIONAL TOTAL</b>      | <b>13,320.20</b> | <b>13,320.53</b> | <b>0.33</b> | <b>0.002%</b> | <b>see description and reasoning in: sub-category chapters</b> |
| <b>NFR 1 - Energy</b>      | <b>12,050.36</b> | <b>12,050.69</b> | <b>0.33</b> | <b>0.003%</b> | <b>sub-category chapters</b>                                   |
| 1.A.2.g vii                | 74.39            | 73.97            | -0.43       | -0.57%        | <a href="#">here</a>   |
| 1.A.4.a ii                 | 6.17             | 6.05             | -0.13       | -2.05%        | <a href="#">here</a>   |
| 1.A.4.c ii                 | 110.83           | 111.72           | 0.88        | 0.80%         | <a href="#">here</a>   |
| <b>NFR 2 - IPPU</b>        | <b>1,248.77</b>  | <b>1,248.77</b>  | <b>0.00</b> | <b>0.00%</b>  |  |
| <b>NFR 3 - Agriculture</b> | <b>NA</b>        |                  |             |               |  |
| <b>NFR 5 - Waste</b>       | <b>21.08</b>     | <b>21.08</b>     | <b>0.00</b> | <b>0.00%</b>  |  |
| <b>NFR 6 - Other</b>       | <b>NA</b>        |                  |             |               |  |

The small changes in the **National Total** reported for **2021 (+9.9 kt or +0.38 %)** are dominated by partly opposing revisions within NFRs **1.A.2.g vii** (+39.42 kt), **1.A.3.b i** (-18.7 kt), **1.A.4.c ii** (+18.8 kt) and **2.C.3** (-30.5 kt).

Here, the most significant percental changes occur for NFRs **1.A.3.d ii** with plus 120 % and **1.B.1.b** with minus 96 %.

Table 2: Changes in emission estimates for 2021

| NFR Sector            | Submission 2024 | Submission 2025 | Difference   |              | Reasoning  |
|-----------------------|-----------------|-----------------|--------------|--------------|--|
|                       | [kt]            |                 |              | relative     |  |
| <b>NATIONAL TOTAL</b> | <b>2,539.17</b> | <b>2,568.11</b> | <b>28.94</b> | <b>1.14%</b> | <b>see description and reasoning in: sub-category chapters</b> |
| <b>NFR 1 - Energy</b> | <b>1,799.87</b> | <b>1,828.53</b> | <b>28.66</b> | <b>1.59%</b> | <b>sub-category chapters</b>                                   |
| 1.A.1.a               | 94.69           | 94.23           | -0.46        | -0.49%       | <a href="#">here</a>   |
| 1.A.1.b               | 2.08            | 1.59            | -0.49        | -23.66%      | <a href="#">here</a>   |
| 1.A.1.c               | 11.51           | 11.44           | -0.07        | -0.63%       | <a href="#">here</a>   |
| 1.A.2.a               | 32.51           | 30.84           | -1.67        | -5.14%       | <a href="#">here</a>   |
| 1.A.2.b               | 0.123           | 0.126           | 0.003        | 2.59%        | <a href="#">here</a>   |
| 1.A.2.e               | 0.082           | 0.085           | 0.003        | 3.79%        | <a href="#">here</a>   |
| 1.A.2.f               | 1.61            | 1.32            | -0.29        | -18.25%      | <a href="#">here</a>   |
| 1.A.2.g vii           | 177.09          | 188.15          | 11.06        | 6.24%        | <a href="#">here</a>   |
| 1.A.2.g viii          | 18.63           | 16.93           | -1.71        | -9.16%       | <a href="#">here</a>   |
| 1.A.3.a i(i)          | 4.29            | 4.30            | 0.01         | 0.22%        | <a href="#">here</a>   |
| 1.A.3.a ii(i)         | 2.26634         | 2.26647         | 0.00013      | 0.01%        | <a href="#">here</a>   |
| 1.A.3.b i             | 638.00          | 639.47          | 1.47         | 0.23%        | <a href="#">here</a>   |
| 1.A.3.b ii            | 38.73           | 38.76           | 0.03         | 0.08%        | <a href="#">here</a>   |
| 1.A.3.b iii           | 28.95           | 29.33           | 0.39         | 1.33%        | <a href="#">here</a>   |
| 1.A.3.b iv            | 62.60           | 61.28           | -1.32        | -2.11%       | <a href="#">here</a>   |
| 1.A.3.c               | 1.142           | 1.146           | 0.004        | 0.34%        | <a href="#">here</a>   |
| 1.A.3.d ii            | 6.97            | 6.91            | -0.05        | -0.77%       | <a href="#">here</a>   |
| 1.A.4.a i             | 48.25           | 46.86           | -1.39        | -2.89%       | <a href="#">here</a>   |
| 1.A.4.a ii            | 1.54            | 1.37            | -0.18        | -11.43%      | <a href="#">here</a>   |
| 1.A.4.b i             | 434.82          | 461.62          | 26.80        | 6.16%        | <a href="#">here</a>   |
| 1.A.4.b ii            | 80.65           | 82.75           | 2.09         | 2.60%        | <a href="#">here</a>   |
| 1.A.4.c i             | 15.60           | 15.73           | 0.13         | 0.84%        | <a href="#">here</a>   |
| 1.A.4.c ii            | 84.69           | 78.76           | -5.94        | -7.01%       | <a href="#">here</a>   |
| 1.A.4.c iii           | 0.02            | 0.02            | 0.00         | 0.00%        | <a href="#">here</a>   |
| 1.A.5.a               | 1.617           | 1.617           | 0.00         | 0.00%        | <a href="#">here</a>   |

|                            | Submission 2024 | Submission 2025 | Difference   |                 | Reasoning                                |
|----------------------------|-----------------|-----------------|--------------|-----------------|--|
| <b>NFR Sector</b>          | <b>[kt]</b>     |                 |              | <b>relative</b> | <b>see description and reasoning in:</b> |
| <b>NATIONAL TOTAL</b>      | <b>2,539.17</b> | <b>2,568.11</b> | <b>28.94</b> | <b>1.14%</b>    | <b>sub-category chapters</b>             |
| <b>NFR 1 - Energy</b>      | <b>1,799.87</b> | <b>1,828.53</b> | <b>28.66</b> | <b>1.59%</b>    | <b>sub-category chapters</b>             |
| 1.A.5.b                    | 10.358          | 10.605          | 0.25         | 2.38%           | <a href="#">here</a>                     |
| <b>NFR 2 - IPPU</b>        | <b>723.34</b>   | <b>723.61</b>   | <b>0.27</b>  | <b>0.04%</b>    | <b>sub-category chapters</b>             |
| 2.A.2                      | 11.23           | 11.47           | 0.24         | 2.13%           | <a href="#">here</a>                     |
| 2.A.3                      | 0.51            | 0.55            | 0.03         | 6.57%           | <a href="#">here</a>                     |
| 2.G                        | 11.939          | 11.940          | 0.001        | 0.01%           | <a href="#">here</a>                     |
| <b>NFR 3 - Agriculture</b> | <b>NA</b>       |                 |              |                 |  |
| <b>NFR 5 - Waste</b>       | <b>15.97</b>    | <b>15.97</b>    | <b>0.00</b>  | <b>0.00%</b>    |  |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |              |                 |  |