

# Recalculations - Chromium (Cr)

With no reportable changes within the **National Total** reported for **1990**, the only notable percental changes occur for NFRs **1.A.2.g vii with -2.03 %**, **1.A.4.a ii with -2.16 %** and **1.A.4.c ii with plus 1.16 %** with mutually canceling absolute changes.

Table 1: Changes in emission estimates for 1990

|                            | Submission 2024 | Submission 2025 | Difference  |              | Reasoning                         |
|----------------------------|-----------------|-----------------|-------------|--------------|-----------------------------------|
| NFR Sector                 | [t]             |                 | absolute    | relative     | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>165.69</b>   | <b>165.69</b>   | <b>0.00</b> | <b>0.00%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>122.29</b>   | <b>122.29</b>   | <b>0.00</b> | <b>0.00%</b> | <b>sub-category chapters</b>      |
| 1.A.2.g vii                | 0.00693         | 0.00679         | -0.00015    | -2.10%       | <a href="#">here</a>              |
| 1.A.4.a ii                 | 0.00135         | 0.00132         | -0.00003    | -2.16%       | <a href="#">here</a>              |
| 1.A.4.c ii                 | 0.04177         | 0.04194         | 0.00017     | 0.42%        | <a href="#">here</a>              |
| <b>NFR 2 - IPPU</b>        | <b>43.38</b>    | <b>43.38</b>    | <b>0.00</b> | <b>0.00%</b> |                                   |
| <b>NFR 3 - Agriculture</b> | <b>NA</b>       |                 |             |              |                                   |
| <b>NFR 5 - Waste</b>       | <b>0.03</b>     | <b>0.03</b>     | <b>0.00</b> | <b>0.00%</b> |                                   |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |             |              |                                   |

The changes within the **National Total** reported for **2021 (+1.82 t or +2.66 %)** 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

|                       | Submission 2023 | Submission 2024 | Difference     |              | Reasoning                         |
|-----------------------|-----------------|-----------------|----------------|--------------|-----------------------------------|
| NFR Sector            | [t]             |                 | absolute       | relative     | see description and reasoning in: |
| <b>NATIONAL TOTAL</b> | <b>68.17</b>    | <b>69.98</b>    | <b>1.82</b>    | <b>2.66%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b> | <b>49.56</b>    | <b>51.36</b>    | <b>1.80</b>    | <b>3.63%</b> | <b>sub-category chapters</b>      |
| 1.A.1.a               | 3.83            | 3.84            | 0.01           | 0.30%        | <a href="#">here</a>              |
| 1.A.1.b               | 1.25            | 1.31            | 0.06           | 5.20%        | <a href="#">here</a>              |
| 1.A.1.c               | 0.0409          | 0.0444          | 0.0035         | 8.58%        | <a href="#">here</a>              |
| 1.A.2.g vii           | 0.010           | 0.007           | -0.003         | -33.0%       | <a href="#">here</a>              |
| 1.A.2.g viii          | 0.23            | 0.22            | -0.01          | -5.55%       | <a href="#">here</a>              |
| 1.A.3.a i(i)          | 0.00000037      | 0.00000035      | -0.00000002    | -5.24%       | <a href="#">here</a>              |
| 1.A.3.a ii(i)         | 0.000004623     | 0.000004627     | 0.000000003    | 0.07%        | <a href="#">here</a>              |
| 1.A.3.b i             | 0.208           | 0.206           | -0.002         | -1.08%       | <a href="#">here</a>              |
| 1.A.3.b ii            | 0.0353          | 0.0347          | -0.0007        | -1.88%       | <a href="#">here</a>              |
| 1.A.3.b iii           | 0.05            | 0.12            | 0.07           | 130%         | <a href="#">here</a>              |
| 1.A.3.b iv            | 0.00252         | 0.00255         | 0.00003        | 1.02%        | <a href="#">here</a>              |
| 1.A.3.b vi            | 16.46           | 16.48           | 0.02           | 0.15%        | <a href="#">here</a>              |
| 1.A.3.b vii           | 1.0181          | 1.0184          | 0.0003         | 0.03%        | <a href="#">here</a>              |
| 1.A.3.c               | 20.90           | 22.48           | 1.59           | 7.60%        | <a href="#">here</a>              |
| 1.A.3.d ii            | 0.029           | 0.031           | 0.002          | 6.10%        | <a href="#">here</a>              |
| 1.A.4.a i             | 2.15            | 2.20            | 0.05           | 2.14%        | <a href="#">here</a>              |
| 1.A.4.a ii            | 0.00121         | 0.00128         | 0.00007        | 6.02%        | <a href="#">here</a>              |
| 1.A.4.b i             | 3.22116         | 3.22117         | 0.00001        | 0.0003%      | <a href="#">here</a>              |
| 1.A.4.b ii            | 0.0067          | 0.0070          | 0.0003         | 4.60%        | <a href="#">here</a>              |
| 1.A.4.c i             | 0.0780          | 0.0783          | 0.0002         | 0.27%        | <a href="#">here</a>              |
| 1.A.4.c ii            | 0.04            | 0.05            | 0.01           | 30.76%       | <a href="#">here</a>              |
| 1.A.5.b               | 0.00045806      | 0.00045811      | 0.00000005     | 0.01%        | <a href="#">here</a>              |
| <b>NFR 2 - IPPU</b>   | <b>18.58006</b> | <b>18.59597</b> | <b>0.01590</b> | <b>0.09%</b> | <b>sub-category chapters</b>      |

|                            | Submission 2023 | Submission 2024 | Difference    |               | Reasoning                         |
|----------------------------|-----------------|-----------------|---------------|---------------|-----------------------------------|
| NFR Sector                 | [t]             |                 |               | relative      | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>68.17</b>    | <b>69.98</b>    | <b>1.82</b>   | <b>2.66%</b>  | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>49.56</b>    | <b>51.36</b>    | <b>1.80</b>   | <b>3.63%</b>  | <b>sub-category chapters</b>      |
| 2.A.3                      | 0.09895         | 0.09901         | 0.00007       | 0.07%         | <a href="#">here</a>              |
| 2.G                        | 0.840583        | 0.856420        | 0.015837      | 1.88%         | <a href="#">here</a>              |
| <b>NFR 3 - Agriculture</b> | <b>NA</b>       |                 |               |               |                                   |
| <b>NFR 5 - Waste</b>       | <b>0.030</b>    | <b>0.028</b>    | <b>-0.002</b> | <b>-5.81%</b> | <b>sub-category chapters</b>      |
| 5.E                        | 0.030           | 0.028           | -0.002        | -5.81%        | <a href="#">here</a>              |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |               |               |                                   |