

# Recalculations - Chromium (Cr)

The negligibly small changes within the **1990 National Total (-0.001 t or -0.001 %)** are dominated by **revisions in NFRs 1.A.2.g vii, 1.A.4.c ii and 5.E** together with some less significant changes throughout NFRs 1 and 2.

Here, the strongest percental change occurs in NFR **1.A.3.a i(i) with minus 62 %**.

Table 1: Changes in emission estimates for 1990

|                            | Submission 2023 | Submission 2024 | Difference    |                | Reasoning                         |
|----------------------------|-----------------|-----------------|---------------|----------------|-----------------------------------|
| NFR Sector                 | [t]             |                 |               | relative       | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>165,692</b>  | <b>165,690</b>  | <b>-0,001</b> | <b>-0,001%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>122,2858</b> | <b>122,2860</b> | <b>0,0002</b> | <b>0,0001%</b> | <b>sub-category chapters</b>      |
| 1.A.2.g vii                | 0,010           | 0,007           | -0,003        | -28,8%         | <a href="#">here</a>              |
| 1.A.3.a i(i)               | 0,0000025       | 0,0000009       | -0,0000015    | -62,4%         | <a href="#">here</a>              |
| 1.A.3.a ii(i)              | 0,0000355       | 0,0000382       | 0,0000027     | 7,61%          | <a href="#">here</a>              |
| 1.A.3.c                    | 27,6524         | 27,6526         | 0,0002        | 0,001%         | <a href="#">here</a>              |
| 1.A.4.a ii                 | 0,0016          | 0,0014          | -0,0002       | -12,7%         | <a href="#">here</a>              |
| 1.A.4.c ii                 | 0,039           | 0,042           | 0,003         | 7,74%          | <a href="#">here</a>              |
| <b>NFR 2 - IPPU</b>        | <b>43,3769</b>  | <b>43,3769</b>  | <b>0,0001</b> | <b>0,0002%</b> | <b>sub-category chapters</b>      |
| 2.G                        | 0,6744          | 0,6745          | 0,0001        | 0,01%          | <a href="#">here</a>              |
| <b>NFR 3 - Agriculture</b> | <b>0,00</b>     | <b>0,00</b>     | <b>0,00</b>   |                |                                   |
| <b>NFR 5 - Waste</b>       | <b>0,029</b>    | <b>0,027</b>    | <b>-0,002</b> | <b>-5,96%</b>  | <b>sub-category chapters</b>      |
| 5.E                        | 0,029           | 0,027           | -0,002        | -5,96%         | <a href="#">here</a>              |
| <b>NFR 6 - Other</b>       | <b>0,00</b>     | <b>0,00</b>     | <b>0,00</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]             |                 |             | 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>              |

|                            | Submission 2023 | Submission 2024 | Difference    |                 | Reasoning                                |
|----------------------------|-----------------|-----------------|---------------|-----------------|------------------------------------------|
| <b>NFR Sector</b>          | <b>[t]</b>      |                 |               | <b>relative</b> | <b>see description and reasoning in:</b> |
| <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.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>                     |
| NFR 2 - IPPU               | 18,58006        | 18,59597        | 0,01590       | 0,09%           | sub-category chapters                    |
| 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>       |                 |               |                 |                                          |