

|                          |     |        |     |     |       |      |     |    |    |    |    |    |    |    |    |    |    |    |        |       |       |       |       |        |     |     |
|--------------------------|-----|--------|-----|-----|-------|------|-----|----|----|----|----|----|----|----|----|----|----|----|--------|-------|-------|-------|-------|--------|-----|-----|
| pollutant-specific data: | NOx | NM VOC | SOx | NH3 | PM2.5 | PM10 | TSP | BC | CO | Pb | Cd | Hg | As | Cr | Cu | Ni | Se | Zn | PCDD/F | B[a]P | B[b]F | B[k]F | I[x]P | PAH1-4 | HCb | PCB |
|--------------------------|-----|--------|-----|-----|-------|------|-----|----|----|----|----|----|----|----|----|----|----|----|--------|-------|-------|-------|-------|--------|-----|-----|

## Recalculations - Polyaromatic Hydrocarbons 1 to 4

The rather remarkable changes within the **National Total** reported for **1990 (+1.94 t or +1.68 %)** are dominated by newly implemented emission estimates for B[b]F, B[k]F and I[x]P from **NFR sub-category 2.C.3**, increasing the PAH emissions from this specific source by **more than 200 %**. Furthermore, a variety of often opposing **revisions** occurs for sub-categories **throughout NFR 1**.

Table 1: Changes of emission estimates 1990

|                            | Submission 2025 | Submission 2026 | Difference  |               | Reasoning                         |
|----------------------------|-----------------|-----------------|-------------|---------------|-----------------------------------|
| NFR Sector                 | [t]             |                 | absolute    | relative      | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>115.67</b>   | <b>117.61</b>   | <b>1.94</b> | <b>1.68%</b>  | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>102.40</b>   | <b>102.50</b>   | <b>0.09</b> | <b>0.09%</b>  | <b>sub-category chapters</b>      |
| 1.A.2.g vii                | 0.097716        | 0.097723        | 0.000007    | 0.01%         | <a href="#">here</a>              |
| 1.A.3.b i                  | 1.24            | 1.56            | 0.32        | 25.62%        | <a href="#">here</a>              |
| 1.A.3.b ii                 | 0.06            | 0.10            | 0.04        | 62.72%        | <a href="#">here</a>              |
| 1.A.3.b iii                | 0.80            | 0.57            | -0.23       | -28.93%       | <a href="#">here</a>              |
| 1.A.3.b iv                 | 0.018           | 0.016           | -0.002      | -9.08%        | <a href="#">here</a>              |
| 1.A.3.b vi                 | 0.06            | 0.04            | -0.02       | -28.25%       | <a href="#">here</a>              |
| 1.A.3.c                    | 0.29            | 0.28            | -0.01       | -4.08%        | <a href="#">here</a>              |
| 1.A.4.a ii                 | 0.01910         | 0.01909         | -0.00001    | -0.03%        | <a href="#">here</a>              |
| 1.A.4.c ii                 | 0.211353        | 0.211351        | -0.000002   | -0.001%       | <a href="#">here</a>              |
| <b>NFR 2 - IPPU</b>        | <b>11.81</b>    | <b>13.65</b>    | <b>1.85</b> | <b>15.65%</b> | <b>sub-category chapters</b>      |
| 2.C.3                      | 0.90            | 2.75            | 1.85        | 206%          | <a href="#">here</a>              |
| <b>NFR 3 - Agriculture</b> | <b>NA</b>       |                 |             |               |                                   |
| <b>NFR 5 - Waste</b>       | <b>1.46</b>     | <b>1.46</b>     | <b>0.00</b> | <b>0.00%</b>  |                                   |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |             |               |                                   |

The significant changes within the **National Total** reported for **2022 (+1.28 t or +4.92 %)** are dominated by revisions in NFR sub-categories **1.A.4.b i with +1.39 t** and **1.A.4.a i with -0.11 t** together with a variety of small revisions throughout NFR 1.

However, the most significant percental change occurs in NFR **1.A.4.a ii with minus 16 %**.

Table 2: Changes of emission estimates 2023

□