

## Recalculations - Arsenic (As)

With negligibly small changes within NFR 1 and re-allocations in sub-categories of 1.A.3.b, the **1990 National Total remains unaltered** compared to last year's submission.

However, the strongest percental change occurs in NFR **1.A.3.b ii with plus 25 %**.

Table 1: Changes of emission estimates for 1990

|                            | Submission 2022 | Submission 2023 | Difference  |              | Reasoning                         |
|----------------------------|-----------------|-----------------|-------------|--------------|-----------------------------------|
| NFR Sector                 | [t]             |                 |             | relative     | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>85,92</b>    | <b>85,92</b>    | <b>0,00</b> | <b>0,00%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>82,37</b>    | <b>82,37</b>    | <b>0,00</b> | <b>0,00%</b> | <b>sub-category chapters</b>      |
| 1.A.2.g vii                | 0,0001217       | 0,0001219       | 0,0000002   | 0,16%        | <a href="#">here</a>              |
| 1.A.3.b i                  | 0,00941         | 0,00940         | -0,00002    | -0,16%       | <a href="#">here</a>              |
| 1.A.3.b ii                 | 0,00025         | 0,00032         | 0,00006     | 24,52%       | <a href="#">here</a>              |
| 1.A.3.b iii                | 0,00106         | 0,00100         | -0,00005    | -4,87%       | <a href="#">here</a>              |
| 1.A.3.b iv                 | 0,000150        | 0,000154        | 0,000004    | 2,99%        | <a href="#">here</a>              |
| 1.A.4.a ii                 | 0,00001827      | 0,00001825      | -0,00000002 | -0,09%       | <a href="#">here</a>              |
| 1.A.4.c ii                 | 0,0001511       | 0,0001510       | -0,00000002 | -0,12%       | <a href="#">here</a>              |
| <b>NFR 2 - IPPU</b>        | <b>3,52</b>     | <b>3,52</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 in the **National Total** reported for **2019 (-0.14 t and -2.51 %)** are dominated by revisions in **NFR 2.A.3 (-0.13 t)**. In addition, several rather negligible revisions occur throughout NFR 1.

The most significant percental changes occur for **NFRs 1.A.3.a i(i) and 1.A.3.a ii(i) with minus 84 %**.

Table 2: Changes of emission estimates for 2019

|                       | Submission 2021 | Submission 2022 | Difference   |                | Reasoning                         |
|-----------------------|-----------------|-----------------|--------------|----------------|-----------------------------------|
| NFR Sector            | [t]             |                 |              | relative       | see description and reasoning in: |
| <b>NATIONAL TOTAL</b> | <b>5,474</b>    | <b>5,336</b>    | <b>-0,14</b> | <b>-2,51%</b>  | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b> | <b>4,304</b>    | <b>4,299</b>    | <b>-0,01</b> | <b>-0,12%</b>  | <b>sub-category chapters</b>      |
| 1.A.1.a               | 1,990           | 2,022           | 0,03         | 1,65%          | <a href="#">here</a>              |
| 1.A.1.b               | 0,917           | 0,892           | -0,03        | -2,75%         | <a href="#">here</a>              |
| 1.A.1.c               | 0,0062          | 0,0061          | -0,0002      | -2,46%         | <a href="#">here</a>              |
| 1.A.2.g vii           | 0,0001292       | 0,0001290       | -0,0000002   | -0,16%         | <a href="#">here</a>              |
| 1.A.2.g viii          | 0,20            | 0,19            | -0,01        | -5,18%         | <a href="#">here</a>              |
| 1.A.3.a i(i)          | 0,00000007      | 0,00000001      | -0,00000006  | -83,52%        | <a href="#">here</a>              |
| 1.A.3.a ii(i)         | 0,0000016       | 0,0000003       | -0,0000013   | -83,69%        | <a href="#">here</a>              |
| 1.A.3.b i             | 0,006404        | 0,006407        | 0,000003     | 0,05%          | <a href="#">here</a>              |
| 1.A.3.b ii            | 0,000416        | 0,000411        | -0,000005    | -1,10%         | <a href="#">here</a>              |
| 1.A.3.b iii           | 0,001506        | 0,001504        | -0,000002    | -0,15%         | <a href="#">here</a>              |
| 1.A.3.b iv            | 0,000129        | 0,000128        | -0,000001    | -1,10%         | <a href="#">here</a>              |
| 1.A.3.c               | 0,0013          | 0,0014          | 0,0001       | 6,66%          | <a href="#">here</a>              |
| 1.A.3.d ii            | 0,0191          | 0,0155          | -0,0035      | -18,59%        | <a href="#">here</a>              |
| 1.A.4.a ii            | 0,00001420      | 0,00001423      | 0,00000003   | 0,18%          | <a href="#">here</a>              |
| 1.A.4.b i             | 0,148           | 0,150           | 0,002        | 1,18%          | <a href="#">here</a>              |
| 1.A.4.b ii            | 0,000029        | 0,000030        | 0,000001     | 4,51%          | <a href="#">here</a>              |
| 1.A.4.c ii            | 0,00014426      | 0,00014427      | 0,00000001   | 0,01%          | <a href="#">here</a>              |
| 1.A.4.c iii           | 0,0005          | 0,0003          | -0,0002      | -37,07%        | <a href="#">here</a>              |
| 1.A.5.b               | 0,0005          | 0,0002          | -0,0004      | -68,36%        | <a href="#">here</a>              |
| <b>NFR 2 - IPPU</b>   | <b>1,1384</b>   | <b>1,0062</b>   | <b>-0,13</b> | <b>-11,61%</b> | <b>sub-category chapters</b>      |
| 2.A.3                 | 0,32            | 0,19            | -0,13        | -40,96%        | <a href="#">here</a>              |

|                            | Submission 2021 | Submission 2022 | Difference   |                 | Reasoning                                |
|----------------------------|-----------------|-----------------|--------------|-----------------|------------------------------------------|
| <b>NFR Sector</b>          | <b>[t]</b>      |                 |              | <b>relative</b> | <b>see description and reasoning in:</b> |
| <b>NATIONAL TOTAL</b>      | <b>5,474</b>    | <b>5,336</b>    | <b>-0,14</b> | <b>-2,51%</b>   | <b>sub-category chapters</b>             |
| <b>NFR 1 - Energy</b>      | <b>4,304</b>    | <b>4,299</b>    | <b>-0,01</b> | <b>-0,12%</b>   | <b>sub-category chapters</b>             |
| 2.D.3.g                    | NA              | 0,0002          | 0,0002       |                 | <a href="#">here</a>                     |
| <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>       |                 |              |                 |                                          |