

## Recalculations - Arsenic (As)

The marginal changes in the **National Total** reported for **1990 (+0.07 t and +0.08 %)** are dominated by revisions in NFRs **1.A.3.d ii** (-0.15 t) and **2.A.3** (+0.21 t). In addition, several rather negligible revisions occur throughout NFR 1.

The strongest percental changes occur in NFRs **1.A.3.c with plus 500%** and **2.A.3. with plus 286 %**.

Table 1: Changes of emission estimates for 1990

| NFR Sector                 | Submission 2021 | Submission 2022 | Difference   |               | Reasoning  |
|----------------------------|-----------------|-----------------|--------------|---------------|--|
|                            | [t]             |                 |              | relative      |  |
| <b>NATIONAL TOTAL</b>      | <b>85,85</b>    | <b>85,92</b>    | <b>0,07</b>  | <b>0,08%</b>  | see description and reasoning in:<br>sub-category chapters |
| <b>NFR 1 - Energy</b>      | <b>82,50</b>    | <b>82,37</b>    | <b>-0,14</b> | <b>-0,17%</b> | sub-category chapters                                      |
| 1.A.3.a i(i)               | 0,0000002       | 0,0000001       | -0,0000001   | -33,33%       | <a href="#">here</a>                                       |
| 1.A.3.a ii(i)              | 0,0000003       | 0,0000002       | -0,0000001   | -33,33%       | <a href="#">here</a>                                       |
| 1.A.3.c                    | 0,002           | 0,014           | 0,011        | 500%          | <a href="#">here</a>                                       |
| 1.A.3.d ii                 | 0,21            | 0,06            | -0,15        | -71,20%       | <a href="#">here</a>                                       |
| 1.A.4.b ii                 | 0,00001478      | 0,00001478      | -0,00000001  | -0,04%        | <a href="#">here</a>                                       |
| 1.A.4.c iii                | 0,00            | 0,00            | 0,00         | -20,39%       | <a href="#">here</a>                                       |
| 1.A.5.b                    | 0,001           | 0,003           | 0,002        | 181%          | <a href="#">here</a>                                       |
| <b>NFR 2 - IPPU</b>        | <b>3,32</b>     | <b>3,52</b>     | <b>0,21</b>  | <b>6,23%</b>  | sub-category chapters                                      |
| 2.A.3                      | 0,07            | 0,28            | 0,21         | 286%          | <a href="#">here</a>                                       |
| 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>       |                 |              |               |  |

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

| NFR Sector            | Submission 2021 | Submission 2022 | Difference   |               | Reasoning  |
|-----------------------|-----------------|-----------------|--------------|---------------|--|
|                       | [t]             |                 |              | relative      |  |
| <b>NATIONAL TOTAL</b> | <b>5,474</b>    | <b>5,336</b>    | <b>-0,14</b> | <b>-2,51%</b> | see description and reasoning in:<br>sub-category chapters |
| <b>NFR 1 - Energy</b> | <b>4,304</b>    | <b>4,299</b>    | <b>-0,01</b> | <b>-0,12%</b> | sub-category chapters                                      |
| 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>                                       |

|                            | 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>             |
| <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>                     |
| 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>       |                 |              |                 |  |