

## Recalculations - Black Carbon (BC)

The small changes within the **National Total reported for 2000 (-0.7 kt | -1.7 %)** are dominated by changes in **NFRs 1.A.3.b i, 1.A.3.b ii and 1.A.4.c ii** together with less significant revisions throughout NFRs 1, 2 and 3.

The most significant relative change occurs for **NFR 2.G with minus 51 %**

Table 1: Changes of emission estimates 2000

| NFR Sector                 | Submission 2020 | Submission 2021 | Difference   |                | Reasoning  |
|----------------------------|-----------------|-----------------|--------------|----------------|--|
|                            | [kt]            |                 |              | relative       |  |
| <b>NATIONAL TOTAL</b>      | <b>39,76</b>    | <b>39,08</b>    | <b>-0,67</b> | <b>-1,70%</b>  | see description and reasoning in:<br>sub-category chapters |
| <b>NFR 1 - Energy</b>      | <b>39,07</b>    | <b>38,41</b>    | <b>-0,66</b> | <b>-1,69%</b>  | sub-category chapters                                      |
| 1.A.2.g vii                | 2,16            | 2,28            | 0,12         | 5,35%          | <a href="#">here</a>                                       |
| 1.A.3.a i(i)               | 0,026           | 0,031           | 0,005        | 20,58%         | <a href="#">here</a>                                       |
| 1.A.3.a ii(i)              | 0,012           | 0,017           | 0,005        | 40,44%         | <a href="#">here</a>                                       |
| 1.A.3.b i                  | 9,75            | 10,11           | 0,36         | 3,73%          | <a href="#">here</a>                                       |
| 1.A.3.b ii                 | 4,72            | 3,91            | -0,81        | -17,15%        | <a href="#">here</a>                                       |
| 1.A.3.b iii                | 10,48           | 10,70           | 0,22         | 2,11%          | <a href="#">here</a>                                       |
| 1.A.3.b iv                 | 0,157           | 0,162           | 0,005        | 3,14%          | <a href="#">here</a>                                       |
| 1.A.3.b vi                 | 1,625           | 1,621           | -0,005       | -0,29%         | <a href="#">here</a>                                       |
| 1.A.4.a ii                 | 0,47            | 0,49            | 0,02         | 5,16%          | <a href="#">here</a>                                       |
| 1.A.4.b ii                 | 0,0042          | 0,0045          | 0,0003       | 7,04%          | <a href="#">here</a>                                       |
| 1.A.4.c ii                 | 4,57            | 3,98            | -0,59        | -12,86%        | <a href="#">here</a>                                       |
| <b>NFR 2 - IPPU</b>        | <b>0,03</b>     | <b>0,02</b>     | <b>-0,01</b> | <b>-43,30%</b> | sub-category chapters                                      |
| 2.G                        | 0,02            | 0,01            | -0,01        | -50,60%        | <a href="#">here</a>                                       |
| <b>NFR 3 - Agriculture</b> | <b>NA</b>       |                 |              |                |  |
| <b>NFR 5 - Waste</b>       | <b>0,65</b>     | <b>0,65</b>     | <b>0,00</b>  | <b>0,00%</b>   |  |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |              |                |  |

The small changes within the **National Total reported for 2019 (-0.13 kt | -1.1 %)** result from multiple revisions throughout NFRs 1 and 5.

The most significant relative change occurs for **NFR 1.A.5.a with plus 77 %**

Table 2: Changes of emission estimates 2019

| NFR Sector            | Submission 2021 | Submission 2022 | Difference   |               | Reasoning             |
|-----------------------|-----------------|-----------------|--------------|---------------|-----------------------|
|                       | [kt]            |                 |              | relative      |                       |
| <b>NATIONAL TOTAL</b> | <b>11,71</b>    | <b>11,58</b>    | <b>-0,13</b> | <b>-1,09%</b> | sub-category chapters |
| <b>NFR 1 - Energy</b> | <b>11,11</b>    | <b>10,98</b>    | <b>-0,13</b> | <b>-1,19%</b> | sub-category chapters |
| 1.A.1.a               | 0,03436         | 0,03437         | 0,00001      | 0,02%         | <a href="#">here</a>  |
| 1.A.1.b               | 0,05            | 0,03            | -0,02        | -45,37%       | <a href="#">here</a>  |
| 1.A.1.c               | 0,00053         | 0,00052         | -0,00001     | -1,68%        | <a href="#">here</a>  |
| 1.A.2.g vii           | 0,672           | 0,670           | -0,002       | -0,25%        | <a href="#">here</a>  |
| 1.A.2.g viii          | 0,077           | 0,072           | -0,005       | -6,43%        | <a href="#">here</a>  |
| 1.A.3.a i(i)          | 0,0364          | 0,0360          | -0,0004      | -1,06%        | <a href="#">here</a>  |
| 1.A.3.a ii(i)         | 0,0142          | 0,0126          | -0,0016      | -11,27%       | <a href="#">here</a>  |
| 1.A.3.b i             | 1,64            | 1,57            | -0,08        | -4,66%        | <a href="#">here</a>  |
| 1.A.3.b ii            | 0,88            | 0,87            | -0,01        | -1,10%        | <a href="#">here</a>  |
| 1.A.3.b iii           | 0,923           | 0,926           | 0,003        | 0,36%         | <a href="#">here</a>  |
| 1.A.3.b iv            | 0,175           | 0,173           | -0,002       | -1,10%        | <a href="#">here</a>  |
| 1.A.3.c               | 0,08            | 0,09            | 0,01         | 17,23%        | <a href="#">here</a>  |
| 1.A.3.d ii            | 0,29            | 0,26            | -0,03        | -11,32%       | <a href="#">here</a>  |
| 1.A.4.a ii            | 0,1550          | 0,1548          | -0,0003      | -0,18%        | <a href="#">here</a>  |
| 1.A.4.b i             | 1,636           | 1,637           | 0,001        | 0,06%         | <a href="#">here</a>  |
| 1.A.4.b ii            | 0,006           | 0,008           | 0,002        | 34,65%        | <a href="#">here</a>  |

|                            | Submission 2021 | Submission 2022 | Difference   |                 | Reasoning                                |
|----------------------------|-----------------|-----------------|--------------|-----------------|--|
| <b>NFR Sector</b>          | <b>[kt]</b>     |                 |              | <b>relative</b> | <b>see description and reasoning in:</b> |
| <b>NATIONAL TOTAL</b>      | <b>11,71</b>    | <b>11,58</b>    | <b>-0,13</b> | <b>-1,09%</b>   | <b>sub-category chapters</b>             |
| <b>NFR 1 - Energy</b>      | <b>11,11</b>    | <b>10,98</b>    | <b>-0,13</b> | <b>-1,19%</b>   | <b>sub-category chapters</b>             |
| 1.A.4.c ii                 | 1,898           | 1,902           | 0,004        | 0,22%           | <a href="#">here</a>                     |
| 1.A.4.c iii                | 0,006           | 0,004           | -0,002       | -34,68%         | <a href="#">here</a>                     |
| 1.A.5.a                    | 0,005           | 0,009           | 0,004        | 77,47%          | <a href="#">here</a>                     |
| 1.A.5.b                    | 0,046           | 0,040           | -0,006       | -12,52%         | <a href="#">here</a>                     |
| 1.B.1.b                    | 0,016           | 0,018           | 0,002        | 12,47%          | <a href="#">here</a>                     |
| <b>NFR 2 - IPPU</b>        | <b>0,01</b>     | <b>0,01</b>     | <b>0,00</b>  | <b>0,00%</b>    |  |
| <b>NFR 3 - Agriculture</b> | <b>NA</b>       |                 |              |                 |  |
| <b>NFR 5 - Waste</b>       | <b>0,590</b>    | <b>0,594</b>    | <b>0,004</b> | <b>0,62%</b>    | <b>sub-category chapters</b>             |
| 5.C.2                      | 0,255           | 0,259           | 0,004        | 1,44%           | <a href="#">here</a>                     |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |              |                 |  |