

# Recalculations - Particulate Matter <2.5µm

## Revision of PM<sub>2.5</sub> emissions over time:



The changes within the **National Total reported for 1990 (-34 kt | -1.19 %)** are dominated by changes in **NFRs 1.A.3.b i, 1.A.3.b ii and 1.A.3.b iii** together with less significant revisions throughout NFRs 1, 2 and 3.

The most significant relative change occurs for **NFR 2.G with minus 58 %**.

Table 1: Changes of emission estimates 1990

|                            | Submission 2020 | Submission 2021 | Difference   |                | Reasoning                         |
|----------------------------|-----------------|-----------------|--------------|----------------|-----------------------------------|
| NFR Sector                 | [kt]            |                 |              | relative       | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>212,77</b>   | <b>205,65</b>   | <b>-7,13</b> | <b>-3,35%</b>  | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>151,40</b>   | <b>150,58</b>   | <b>-0,82</b> | <b>-0,54%</b>  | <b>sub-category chapters</b>      |
| 1.A.2.a                    | 0,0777          | 0,0777          | -0,0001      | -0,10%         | <a href="#">here</a>              |
| 1.A.2.g vii                | 5,41            | 5,51            | 0,11         | 1,97%          | <a href="#">here</a>              |
| 1.A.2.g viii               | 3,74            | 3,74            | 0,00         | 0,00%          | <a href="#">here</a>              |
| 1.A.3.a i(i)               | 0,040           | 0,056           | 0,02         | 40,61%         | <a href="#">here</a>              |
| 1.A.3.a ii(i)              | 0,030           | 0,041           | 0,01         | 33,95%         | <a href="#">here</a>              |
| 1.A.3.b i                  | 18,36           | 18,68           | 0,33         | 1,77%          | <a href="#">here</a>              |
| 1.A.3.b ii                 | 7,82            | 6,15            | -1,68        | -21,42%        | <a href="#">here</a>              |
| 1.A.3.b iii                | 27,34           | 28,33           | 1,00         | 3,65%          | <a href="#">here</a>              |
| 1.A.3.b iv                 | 1,01            | 1,05            | 0,04         | 3,88%          | <a href="#">here</a>              |
| 1.A.3.b vi                 | 6,02            | 6,00            | -0,02        | -0,32%         | <a href="#">here</a>              |
| 1.A.4.a ii                 | 1,04            | 1,05            | 0,02         | 1,46%          | <a href="#">here</a>              |
| 1.A.4.b ii                 | 0,12            | 0,15            | 0,03         | 26,60%         | <a href="#">here</a>              |
| 1.A.4.c ii                 | 10,00           | 9,34            | -0,67        | -6,65%         | <a href="#">here</a>              |
| <b>NFR 2 - IPPU</b>        | <b>49,17</b>    | <b>42,91</b>    | <b>-6,26</b> | <b>-12,73%</b> | <b>sub-category chapters</b>      |
| 2.C.7.a                    | 0,06            | 0,07            | 0,01         | 17,58%         | <a href="#">here</a>              |
| 2.G                        | 11,83           | 5,56            | -6,27        | -52,98%        | <a href="#">here</a>              |
| <b>NFR 3 - Agriculture</b> | <b>5,14</b>     | <b>5,09</b>     | <b>-0,05</b> | <b>-0,97%</b>  | <b>sub-category chapters</b>      |
| 3.B.1.a                    | 2,24            | 2,19            | -0,05        | -2,24%         | <a href="#">here</a>              |
| <b>NFR 5 - Waste</b>       | <b>7,07</b>     | <b>7,07</b>     | <b>0,00</b>  | <b>0,00%</b>   |                                   |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |              |                |                                   |
|                            | Submission 2020 | Submission 2021 | Difference   |                | Reasoning                         |
| NFR Sector                 | [kt]            |                 |              | relative       | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>96,71</b>    | <b>94,66</b>    | <b>-2,05</b> | <b>-2,11%</b>  | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>57,55</b>    | <b>58,37</b>    | <b>0,83</b>  | <b>1,44%</b>   | <b>sub-category chapters</b>      |
| 1.A.1.a                    | 4,69            | 4,75            | 0,05         | 1,17%          | <a href="#">here</a>              |
| 1.A.1.b                    | 0,35            | 0,46            | 0,11         | 32,53%         | <a href="#">here</a>              |
| 1.A.1.c                    | 0,32            | 0,35            | 0,03         | 9,22%          | <a href="#">here</a>              |
| 1.A.2.a                    | 0,082           | 0,081           | -0,002       | -2,29%         | <a href="#">here</a>              |
| 1.A.2.g vii                | 0,875           | 0,970           | 0,10         | 10,86%         | <a href="#">here</a>              |
| 1.A.2.g viii               | 2,21            | 2,08            | -0,13        | -5,88%         | <a href="#">here</a>              |
| 1.A.3.a i(i)               | 0,09            | 0,08            | -0,01        | -7,80%         | <a href="#">here</a>              |
| 1.A.3.a ii(i)              | 0,02            | 0,04            | 0,01         | 64,21%         | <a href="#">here</a>              |
| 1.A.3.b i                  | 3,01            | 3,14            | 0,13         | 4,37%          | <a href="#">here</a>              |
| 1.A.3.b ii                 | 1,345           | 1,348           | 0,003        | 0,25%          | <a href="#">here</a>              |
| 1.A.3.b iii                | 1,99            | 1,94            | -0,05        | -2,69%         | <a href="#">here</a>              |
| 1.A.3.b iv                 | 0,94            | 0,98            | 0,04         | 3,86%          | <a href="#">here</a>              |
| 1.A.3.b vi                 | 7,59            | 7,58            | -0,01        | -0,15%         | <a href="#">here</a>              |

|                            | Submission 2020 | Submission 2021 | Difference      |                | Reasoning                                        |
|----------------------------|-----------------|-----------------|-----------------|----------------|--------------------------------------------------|
| NFR Sector                 | [kt]            |                 | relative        |                | see description and reasoning in:                |
| <b>NATIONAL TOTAL</b>      | <b>96,71</b>    | <b>94,66</b>    | <b>-2,05</b>    | <b>-2,11%</b>  | <b>sub-category chapters</b>                     |
| <b>NFR 1 - Energy</b>      | <b>57,55</b>    | <b>58,37</b>    | <b>0,83</b>     | <b>1,44%</b>   | <b>sub-category chapters</b>                     |
| 1.A.3.b vii                | 4,242           | 4,235           | -0,01           | -0,16%         | <a href="#">here</a>                             |
| 1.A.3.c                    | 4,39            | 4,37            | -0,02           | -0,45%         | <a href="#">here</a>                             |
| 1.A.3.d ii                 | 1,07            | 1,10            | 0,03            | 2,87%          | <a href="#">here</a>                             |
| 1.A.3.e i                  | 0,00760         | 0,00763         | 0,00003         | 0,45%          | <a href="#">1.A.3.e i - Pipeline Transport ]</a> |
| 1.A.4.a i                  | 2,05            | 1,81            | -0,24           | -11,55%        | <a href="#">here</a>                             |
| 1.A.4.a ii                 | 0,250           | 0,213           | -0,04           | -14,65%        | <a href="#">here</a>                             |
| 1.A.4.b i                  | 16,44           | 17,89           | 1,45            | 8,82%          | <a href="#">here</a>                             |
| 1.A.4.b ii                 | 0,1336          | 0,1270          | -0,01           | -4,97%         | <a href="#">here</a>                             |
| 1.A.4.c i                  | 0,48            | 0,48            | -0,01           | -1,35%         | <a href="#">here</a>                             |
| 1.A.4.c ii                 | 3,860           | 3,243           | -0,62           | -15,99%        | <a href="#">here</a>                             |
| 1.A.4.c iii                | 0,083           | 0,085           | 0,002           | 2,70%          | <a href="#">here</a>                             |
| 1.A.5.a                    | 0,026           | 0,026           | 0,001           | 2,07%          | <a href="#">here</a>                             |
| 1.A.5.b                    | 0,0686          | 0,0687          | 0,0001          | 0,14%          | <a href="#">here</a>                             |
| <b>NFR 2 - IPPU</b>        | <b>28,31</b>    | <b>25,44</b>    | <b>-2,87</b>    | <b>-10,14%</b> | <b>sub-category chapters</b>                     |
| 2.A.3                      | 0,10            | 0,09            | 0,00            | -0,77%         | <a href="#">here</a>                             |
| 2.A.5.a                    | 2,13            | 2,15            | 0,02            | 0,72%          | <a href="#">here</a>                             |
| 2.C.2                      | 0,00094         | 0,00086         | -0,00008        | -8,04%         | <a href="#">here</a>                             |
| 2.C.7.a                    | 0,05            | 0,04            | 0,00            | -6,50%         | <a href="#">here</a>                             |
| 2.C.7.c                    | 0,01            | 0,00            | -0,01           | -73,35%        | <a href="#">here</a>                             |
| 2.G                        | 7,42            | 4,54            | -2,87           | -38,75%        | <a href="#">here</a>                             |
| <b>NFR 3 - Agriculture</b> | <b>4,47</b>     | <b>4,47</b>     | <b>0,00</b>     | <b>-0,02%</b>  | <b>sub-category chapters</b>                     |
| 3.B.3                      | 0,1143          | 0,1141          | -0,0002         | -0,21%         | <a href="#">here</a>                             |
| 3.B.4.g i                  | 0,1605          | 0,1603          | -0,0002         | -0,10%         | <a href="#">here</a>                             |
| 3.B.4.g ii                 | 0,1864          | 0,1859          | -0,0006         | -0,30%         | <a href="#">here</a>                             |
| <b>NFR 5 - Waste</b>       | <b>6,37495</b>  | <b>6,37494</b>  | <b>-0,00001</b> | <b>0,00%</b>   | <b>sub-category chapters</b>                     |
| 5.A                        | 0,00152         | 0,00150         | -0,00001        | -0,87%         | <a href="#">here</a>                             |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |                 |                |                                                  |