

Recalculations - Sulphur Oxides

The changes in the **National Total reported for 1990 (-14.4 kt | -0.26 %)** result almost entirely from revised emission estimates in NFRs **1.A.3.d ii** (-13.80 kt), **2.B.6** (+1.73 kt) and **2.B.10.a** (-2.58 kt) together with less significant changes throughout NFRs 1 and 2.

Here, the strongest percental change occurs for **1.A.3.d ii with minus 56 %**.

Table 1: Changes in emission estimates for 1990

| NFR Code | Submission 2021 | Submission 2022 | Difference | | Reasoning |
|----------------------------|-----------------|-----------------|---------------|---------------|-----------------------------------|
| | [kt] | | | relative | see description and reasoning in: |
| NATIONAL TOTAL | 5.474,42 | 5.460,02 | -14,40 | -0,26% | sub-category chapters |
| NFR 1 - Energy | 5.297,93 | 5.284,38 | -13,55 | -0,26% | sub-category chapters |
| 1.A.3.a ii(i) | 0,18 | 0,18 | 0,00 | -0,03% | here |
| 1.A.3.c | 7,73 | 8,24 | 0,51 | 6,56% | here |
| 1.A.3.d ii | 24,67 | 10,87 | -13,80 | -55,94% | here |
| 1.A.4.c iii | 0,36 | 0,19 | -0,18 | -48,74% | here |
| 1.A.5.b | 3,55 | 3,47 | -0,08 | -2,27% | here |
| NFR 2 - IPPU | 176,39 | 175,54 | -0,85 | -0,48% | sub-category chapters |
| 2.B.6 | C | 1,73 | 1,73 | | here |
| 2.B.10.a | 56,50 | 53,93 | -2,58 | -4,56% | here |
| NFR 3 - Agriculture | | NA | | | |
| NFR 5 - Waste | 0,11 | 0,11 | 0,00 | 0,00% | |
| NFR 6 - Other | | NA | | | |

Changes in the **National Total reported for 2019 (-3.84 kt | -1.46 %)** result mainly from revisions in **NFR sub-categories 1.A.1.c, 1.A.2.g viii and 2.A.3** together with less relevant changes throughout NFRs 1, 2 and 5.

Table 2: Changes in emission estimates for 2019

| NFR Sector | Submission 2021 | Submission 2022 | Difference | | Reasoning |
|-----------------------|-----------------|-----------------|--------------|---------------|-----------------------------------|
| | [kt] | | | relative | see description and reasoning in: |
| NATIONAL TOTAL | 263,53 | 259,70 | -3,84 | -1,46% | sub-category chapters |
| NFR 1 - Energy | 195,50 | 193,90 | -1,59 | -0,81% | sub-category chapters |
| 1.A.1.a | 99,43 | 99,78 | 0,35 | 0,36% | here |
| 1.A.1.b | 32,80 | 32,91 | 0,11 | 0,34% | here |
| 1.A.1.c | 8,86 | 7,73 | -1,13 | -12,72% | here |
| 1.A.2.a | 4,73 | 4,87 | 0,14 | 2,96% | here |
| 1.A.2.b | 0,382 | 0,378 | -0,004 | -1,05% | here |
| 1.A.2.e | 0,79 | 0,77 | -0,01 | -1,64% | here |
| 1.A.2.g vii | 0,01824 | 0,01825 | 0,00001 | 0,05% | here |
| 1.A.2.g viii | 27,27 | 25,67 | -1,59 | -5,84% | here |
| 1.A.3.a i(i) | 0,65 | 0,65 | 0,01 | 1,10% | here |
| 1.A.3.a ii(i) | 0,165 | 0,166 | 0,001 | 0,64% | here |
| 1.A.3.b i | 0,517 | 0,516 | -0,001 | -0,13% | here |
| 1.A.3.b ii | 0,062 | 0,061 | -0,001 | -1,06% | here |
| 1.A.3.b iii | 0,2419 | 0,2416 | -0,0003 | -0,13% | here |
| 1.A.3.b iv | 0,0070 | 0,0069 | -0,0001 | -1,10% | here |
| 1.A.3.c | 0,225 | 0,239 | 0,014 | 6,45% | here |
| 1.A.3.d ii | 0,61 | 0,38 | -0,23 | -37,88% | here |
| 1.A.4.a i | 0,90 | 1,24 | 0,34 | 37,36% | here |
| 1.A.4.a ii | 0,003990 | 0,003994 | 0,000004 | 0,10% | here |
| 1.A.4.b i | 9,47 | 10,41 | 0,93 | 9,84% | here |
| 1.A.4.b ii | 0,00155 | 0,00162 | 0,00007 | 4,50% | here |
| 1.A.4.c i | 2,32 | 1,82 | -0,50 | -21,61% | here |
| 1.A.4.c ii | 0,02161 | 0,02164 | 0,00003 | 0,12% | here |

| | Submission 2021 | Submission 2022 | Difference | | Reasoning |
|----------------------------|-----------------|-----------------|--------------|-----------------|--|
| NFR Sector | [kt] | | | relative | see description and reasoning in: |
| NATIONAL TOTAL | 263,53 | 259,70 | -3,84 | -1,46% | sub-category chapters |
| NFR 1 - Energy | 195,50 | 193,90 | -1,59 | -0,81% | sub-category chapters |
| 1.A.4.c iii | 0,02 | 0,01 | -0,01 | -45,52% | here |
| 1.A.5.a | 0,011 | 0,012 | 0,001 | 7,94% | here |
| 1.A.5.b | 0,04 | 0,02 | -0,02 | -39,13% | here |
| 1.B.1.b | 0,800 | 0,804 | 0,004 | 0,48% | here |
| 1.B.2.a iv | 4,2097 | 4,2104 | 0,0006 | 0,01% | |
| 1.B.2.c | 0,9525 | 0,9526 | 0,0001 | 0,01% | |
| NFR 2 - IPPU | 67,90 | 65,66 | -2,24 | -3,30% | sub-category chapters |
| 2.A.3 | 9,88 | 7,64 | -2,24 | -22,70% | here |
| 2.A.6 | 1,2034 | 1,2039 | 0,0005 | 0,04% | here |
| 2.B.6 | C | 0,95 | 0,95 | | here |
| 2.B.10.a | 10,91 | 9,96 | -0,95 | -8,75% | here |
| 2.H.1 | 0,620 | 0,619 | -0,002 | -0,27% | here |
| NFR 3 - Agriculture | NA | | | | |
| NFR 5 - Waste | 0,137 | 0,138 | 0,001 | 0,66% | sub-category chapters |
| 5.C.2 | 0,063 | 0,064 | 0,001 | 1,44% | here |
| NFR 6 - Other | NA | | | | |