

Recalculations - Ammonia

The small changes within the **National Total reported for 1990 (-3.1 kt | -0.43 %)** result almost entirely from revisions in NFRs **2.B.10.a** (-3.14 kt), **3.B.3** (+4.69 kt) and **3.D.a.2.a** (+1.54 kt) together with less significant changes throughout NFRs 1 and 2.

However, the most significant percental change occurs for **NFR 1.A.3.d ii with minus 54 %**.

Table 1: Changes in emission estimates for 1990

| NFR Code | Submission 2021 | Submission 2022 | Difference | | Reasoning |
|----------------------------|-----------------|-----------------|--------------|----------------|---|
| | [kt] | | absolute | relative | |
| NATIONAL TOTAL | 715,09 | 718,16 | 3,07 | 0,43% | see description and reasoning in: sub-category chapters |
| NFR 1 - Energy | 15,53 | 15,54 | 0,01 | 0,03% | sub-category chapters |
| 1.A.3.b iii | 0,08 | 0,08 | 0,00 | 0,03% | here |
| 1.A.3.c | 0,02 | 0,03 | 0,01 | 38,23% | here |
| 1.A.3.d ii | 0,01 | 0,01 | 0,00 | -24,12% | here |
| 1.A.4.b ii | 0,000162 | 0,000160 | -0,000003 | -1,71% | here |
| 1.A.4.c iii | 0,0002 | 0,0001 | -0,0001 | -54,03% | here |
| 1.A.5.b | 0,3000 | 0,2999 | -0,0001 | -0,05% | here |
| NFR 2 - IPPU | 17,81 | 14,68 | -3,14 | -17,60% | sub-category chapters |
| 2.B.10.a | 9,57 | 6,44 | -3,14 | -32,76% | here |
| NFR 3 - Agriculture | 681,58 | 687,79 | 6,20 | 0,91% | sub-category chapters |
| 3.B.1.b | 91,39 | 91,43 | 0,03 | 0,04% | here |
| 3.B.3 | 117,12 | 121,81 | 4,69 | 4,00% | here |
| 3.B.4.g i | 11,45 | 11,31 | -0,14 | -1,19% | here |
| 3.B.4.g iii | 3,96 | 3,99 | 0,02 | 0,61% | here |
| 3.B.4.g iv | 2,48 | 2,47 | -0,01 | -0,50% | here |
| 3.D.a.2.a | 273,67 | 275,21 | 1,54 | 0,56% | here |
| 3.D.a.3 | 22,16 | 22,23 | 0,07 | 0,30% | here |
| NFR 5 - Waste | 0,16 | 0,16 | 0,00 | 0,00% | |
| NFR 6 - Other | | NA | | | |

Changes within the **National Total reported for 2019 (-11.7 kt | -2 %)** result mainly from several larger revisions in **NFR 3 (-9.6 kt)** together with less significant changes throughout NFRs 1, 2 and 5.

The most significant relative change occurs for **NFR 2.A.3 with plus 68 %**.

Table 2: Changes in emission estimates for 2019

| NFR Sector | Submission 2021 | Submission 2022 | Difference | | Reasoning |
|-----------------------|-----------------|-----------------|---------------|---------------|---|
| | [kt] | | absolute | relative | |
| NATIONAL TOTAL | 586,69 | 575,00 | -11,69 | -1,99% | see description and reasoning in: sub-category chapters |
| NFR 1 - Energy | 13,84 | 13,74 | -0,10 | -0,71% | sub-category chapters |
| 1.A.1.a | 0,65 | 0,66 | 0,01 | 1,27% | here |
| 1.A.1.b | 0,592 | 0,590 | -0,002 | -0,40% | here |
| 1.A.1.c | 0,024 | 0,026 | 0,002 | 9,75% | here |
| 1.A.2.a | 0,10 | 0,11 | 0,01 | 5,50% | here |
| 1.A.2.b | 0,0072 | 0,0066 | -0,001 | -8,48% | here |
| 1.A.2.e | 0,0016 | 0,0019 | 0,0002 | 14,03% | here |
| 1.A.2.f | 0,0216 | 0,0221 | 0,0005 | 2,30% | here |
| 1.A.2.g vii | 0,00804 | 0,00805 | 0,00001 | 0,11% | here |
| 1.A.2.g viii | 0,318 | 0,375 | 0,06 | 17,85% | here |
| 1.A.3.a i(i) | 0,131 | 0,132 | 0,001 | 1,10% | here |
| 1.A.3.a ii(i) | 0,0334 | 0,0337 | 0,0002 | 0,69% | here |
| 1.A.3.b i | 8,918 | 8,834 | -0,08 | -0,95% | here |
| 1.A.3.b ii | 0,181 | 0,180 | -0,001 | -0,63% | here |

| | Submission 2021 | Submission 2022 | Difference | | Reasoning |
|----------------------------|-----------------|-----------------|---------------|-----------------------------------|------------------------------|
| NFR Sector | [kt] | | relative | see description and reasoning in: | |
| NATIONAL TOTAL | 586,69 | 575,00 | -11,69 | -1,99% | sub-category chapters |
| NFR 1 - Energy | 13,84 | 13,74 | -0,10 | -0,71% | sub-category chapters |
| 1.A.3.b iii | 0,745 | 0,749 | 0,004 | 0,58% | here |
| 1.A.3.b iv | 0,0217 | 0,0215 | -0,0002 | -1,10% | here |
| 1.A.3.c | 0,007 | 0,008 | 0,001 | 11,53% | here |
| 1.A.3.d ii | 0,0064 | 0,0058 | -0,0006 | -9,00% | here |
| 1.A.4.a i | 0,510 | 0,390 | -0,12 | -23,54% | here |
| 1.A.4.a ii | 0,001872 | 0,001873 | 0,000002 | 0,10% | here |
| 1.A.4.b i | 1,479 | 1,504 | 0,03 | 1,71% | here |
| 1.A.4.b ii | 0,00037 | 0,00040 | 0,00002 | 6,08% | here |
| 1.A.4.c i | 0,046 | 0,051 | 0,005 | 9,90% | here |
| 1.A.4.c ii | 0,00948 | 0,00949 | 0,00001 | 0,14% | here |
| 1.A.4.c iii | 0,00016 | 0,00010 | -0,00006 | -36,87% | here |
| 1.A.5.a | 0,0037 | 0,0038 | 0,0001 | 1,82% | here |
| 1.A.5.b | 0,0258 | 0,0257 | -0,0001 | -0,50% | here |
| 1.B.1.b | 0,0019 | 0,0021 | 0,0003 | 13,30% | here |
| NFR 2 - IPPU | 11,502 | 9,423 | -2,08 | -18,07% | sub-category chapters |
| 2.A.3 | 0,70 | 1,17 | 0,47 | 67,99% | here |
| 2.A.6 | 0,05199 | 0,05201 | 0,00002 | 0,04% | here |
| 2.B.10.a | 7,88 | 5,32 | -2,55 | -32,41% | here |
| NFR 3 - Agriculture | 557,85 | 548,29 | -9,56 | -1,71% | sub-category chapters |
| 3.B.1.a | 50,40 | 58,88 | 8,47 | 16,81% | here |
| 3.B.1.b | 64,47 | 71,69 | 7,21 | 11,19% | here |
| 3.B.3 | 88,50 | 85,01 | -3,49 | -3,94% | here |
| 3.B.4.d | 0,239 | 0,245 | 0,006 | 2,35% | here |
| 3.B.4.e | 5,78 | 6,16 | 0,39 | 6,67% | here |
| 3.B.4.g i | 7,93 | 8,01 | 0,08 | 0,95% | here |
| 3.B.4.g ii | 12,33 | 8,55 | -3,78 | -30,66% | here |
| 3.B.4.g iii | 10,62 | 9,83 | -0,78 | -7,39% | here |
| 3.B.4.g iv | 1,55 | 1,56 | 0,01 | 0,81% | here |
| 3.D.a.1 | 68,09 | 65,63 | -2,46 | -3,61% | here |
| 3.D.a.2.a | 174,11 | 162,64 | -11,47 | -6,59% | here |
| 3.D.a.2.b | 1,73 | 1,90 | 0,18 | 10,17% | here |
| 3.D.a.2.c | 54,63 | 50,98 | -3,64 | -6,67% | here |
| 3.D.a.3 | 12,78 | 12,56 | -0,21 | -1,68% | here |
| 3.l | 3,20 | 3,14 | -0,06 | -1,86% | here |
| NFR 5 - Waste | 3,49 | 3,54 | 0,05 | 1,37% | sub-category chapters |
| 5.B.1 | 1,95 | 1,96 | 0,01 | 0,64% | here |
| 5.B.2 | 1,54 | 1,58 | 0,04 | 2,29% | here |
| NFR 6 - Other | NA | | | | |