

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. The most significant relative change occurs for NFR 2.G with minus 58 %. [Table 1:](#)

Changes in emission estimates for 1990 ^ Submission 2020 ^ Submission 2021 ^ Difference | Reasoning ^ NFR Code ^ [kt] | ^ relative ^ see description and reasoning in: ^ **NATIONAL TOTAL** ^ 715,09 ^ 718,16 ^ 3,07 ^ 0,43% ^ 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 2018 (-35.2 kt | -5.53 %) result almost entirely from revisions in NFR 3 (-34.6 kt) **together with less significant changes throughout NFRs 1 and 2. The most**

significant relative change occurs for NFR 2.G with minus 50 %. [Table 2: Changes in emission estimates for 2018](#)

^ Submission 2020 ^ Submission 2021 ^ Difference ^ Reasoning ^ NFR Code ^ [kt] ^ relative ^ see description and reasoning in: ^ **NATIONAL TOTAL** ^ 636,43 ^ 601,24 ^ -35,18 ^ -5,53% ^ sub-category chapters ^ NFR 1 - Energy ^ 13,67 ^ 13,82 ^ 0,15 ^ 1,12% ^ sub-category chapters ^ | 1.A.1.a | 0,686 | 0,704 | 0,02 | 2,75% | [here](#) | | 1.A.1.b | 0,489 | 0,582 | 0,09 | 18,89% | [here](#) | | 1.A.1.c | 0,0269 | 0,0268 | -0,0001 | -0,33% | [here](#) | | 1.A.2.a | 0,1069 | 0,1078 | 0,0010 | 0,89% | [here](#) | | 1.A.2.b | 0,0070 | 0,0071 | 0,0001 | 1,04% | [here](#) | | 1.A.2.e | 0,001 | 0,002 | 0,0003 | 21,26% | [here](#) | | 1.A.2.f | 0,024 | 0,021 | -0,003 | -11,34% | [here](#) | | 1.A.2.g vii | 0,007 | 0,008 | 0,001 | 9,37% | [here](#) | | 1.A.2.g viii | 0,386 | 0,385 | -0,001 | -0,35% | [here](#) | | 1.A.3.a i(i) | 0,137 | 0,132 | -0,004 | -3,08% | [here](#) | | 1.A.3.a ii(i) | 0,031 | 0,033 | 0,003 | 8,47% | [here](#) | | 1.A.3.b i | 8,939 | 9,105 | 0,17 | 1,86% | [here](#) | | 1.A.3.b ii | 0,157 | 0,151 | -0,01 | -3,76% | [here](#) | | 1.A.3.b iii | 0,735 | 0,709 | -0,03 | -3,55% | [here](#) | | 1.A.3.b iv | 0,0210 | 0,0214 | 0,0004 | 1,72% | [here](#) | | 1.A.3.c | 0,008 | 0,007 | -0,001 | -11,48% | [here](#) | | 1.A.3.d ii | 0,0069 | 0,0071 | 0,0002 | 2,79% | [here](#) | | 1.A.4.a i | 0,475 | 0,415 | -0,06 | -12,70% | [here](#) | | 1.A.4.a ii | 0,00194 | 0,00189 | -0,00006 | -2,87% | [here](#) | | 1.A.4.b i | 1,354 | 1,328 | -0,03 | -1,92% | [here](#) | | 1.A.4.b ii | 0,00037660 | 0,00037655 | -0,00000005 | -0,01% | [here](#) | | 1.A.4.c i | 0,044 | 0,038 | -0,005 | -12,16% | [here](#) | | 1.A.4.c ii | 0,0096 | 0,0093 | -0,0003 | -2,81% | [here](#) | | 1.A.4.c iii | 0,00079 | 0,00081 | 0,00002 | 2,70% | [here](#) | | 1.A.5.a | 0,004321 | 0,004324 | 0,000003 | 0,08% | [here](#) | | 1.A.5.b | 0,011 | 0,015 | 0,004 | 36,91% | [here](#) | ^ NFR 2 - IPPU ^ 12,439 ^ 11,807 ^ -0,63 ^ -5,08% ^ sub-category chapters ^ | 2.A.3 | 0,76 | 0,76 | 0,00 | -0,22% | [here](#) | | 2.G | 1,25 | 0,62 | -0,63 | -50,27% | [here](#) | ^ NFR 3 - Agriculture ^ 606,72 ^ 572,13 ^ -34,59 ^ -5,70% ^ sub-category chapters ^ | 3.B.1.a | 64,24 | 50,74 | -13,49 | -21,01% | [here](#) | | 3.B.1.b | 73,74 | 65,85 | -7,90 | -10,71% | [here](#) | | 3.B.2 | 1,44 | 1,52 | 0,08 | 5,83% | [here](#) | | 3.B.3 | 90,63 | 90,54 | -0,09 | -0,10% | [here](#) | | 3.B.4.g i | 9,65 | 7,85 | -1,80 | -18,67% | [here](#) | | 3.B.4.g ii | 9,35 | 12,43 | 3,09 | 33,00% | [here](#) | | 3.B.4.g iii | 10,59 | 10,62 | 0,02 | 0,21% | [here](#) | | 3.B.4.g iv | 1,27 | 1,55 | 0,28 | 22,04% | [here](#) | | 3.D.a.1 | 73,52 | 76,79 | 3,27 | 4,45% | [here](#) | | 3.D.a.2.a | 196,64 | 175,65 | -20,98 | -10,67% | [here](#) | | 3.D.a.2.b | 1,89 | 1,73 | -0,16 | -8,55% | [here](#) | | 3.D.a.2.c | 55,66 | 54,63 | -1,03 | -1,86% | [here](#) | | 3.D.a.3 | 8,71 | 12,93 | 4,22 | 48,39% | [here](#) | | 3.I | 3,29 | 3,20 | -0,09 | -2,68% | [here](#) | ^ NFR 5 - Waste ^ 3,597 ^ 3,483 ^ -0,11 ^ -3,15% ^ sub-category chapters ^ | 5.B.1 | 2,04 | 1,96 | -0,08 | -4,10% | [here](#) | | 5.B.2 | 1,56 | 1,53 | -0,03 | -1,91% | [here](#) | ^ NFR 6 - Other** ^ NA ^ ^ ^ ^