


Recalculations - Chromium (Cr)

The negligibly small changes within the **1990 National Total (-0.001 t or -0.001 %)** are dominated by **revisions in NFRs 1.A.2.g vii, 1.A.4.c ii and 5.E** together with some less significant changes throughout NFRs 1 and 2.

Here, the strongest percental change occurs in NFR **1.A.3.a i(i) with minus 62 %**.

Table 1: Changes in emission estimates for 1990

|  Submission 2023 | Submission 2024 | Difference | | Reasoning | |
|---|-----------------|-----------------|---------------|-----------------------------------|------------------------------|
| NFR Sector | [t] | | relative | see description and reasoning in: | |
| NATIONAL TOTAL | 165,692 | 165,690 | -0,001 | -0,001% | sub-category chapters |
| NFR 1 - Energy | 122,2858 | 122,2860 | 0,0002 | 0,0001% | sub-category chapters |
| 1.A.2.g vii | 0,010 | 0,007 | -0,003 | -28,8% | here |
| 1.A.3.a i(i) | 0,0000025 | 0,0000009 | -0,0000015 | -62,4% | here |
| 1.A.3.a ii(i) | 0,0000355 | 0,0000382 | 0,0000027 | 7,61% | here |
| 1.A.3.c | 27,6524 | 27,6526 | 0,0002 | 0,001% | here |
| 1.A.4.a ii | 0,0016 | 0,0014 | -0,0002 | -12,7% | here |
| 1.A.4.c ii | 0,039 | 0,042 | 0,003 | 7,74% | here |
| NFR 2 - IPPU | 43,3769 | 43,3769 | 0,0001 | 0,0002% | sub-category chapters |
| 2.G | 0,6744 | 0,6745 | 0,0001 | 0,01% | here |
| NFR 3 - Agriculture | 0,00 | 0,00 | 0,00 | | |
| NFR 5 - Waste | 0,029 | 0,027 | -0,002 | -5,96% | sub-category chapters |
| 5.E | 0,029 | 0,027 | -0,002 | -5,96% | here |
| NFR 6 - Other | 0,00 | 0,00 | 0,00 | | |

The changes in the **National Total** reported for **2020 (+1.34 t and +2 %)** are dominated by a revision in **NFR 1.A.3.c with plus 1.5 t** where annual mileage and, hence, abrasive emissions were revised for 2020.

The significant percental change occurring in NFR 1.A.3.b iii results from a data error that will be corrected with the next annual submission.

Table 2: Changes of emission estimates for 2020

| Submission 2023 | Submission 2024 | Difference | | Reasoning | |
|-----------------------|-----------------|--------------|-------------|-----------------------------------|------------------------------|
| NFR Sector | [t] | | relative | see description and reasoning in: | |
| NATIONAL TOTAL | 68,17 | 69,98 | 1,82 | 2,66% | sub-category chapters |
| NFR 1 - Energy | 49,56 | 51,36 | 1,80 | 3,63% | sub-category chapters |
| 1.A.1.a | 3,83 | 3,84 | 0,01 | 0,30% | here |
| 1.A.1.b | 1,25 | 1,31 | 0,06 | 5,20% | here |
| 1.A.1.c | 0,0409 | 0,0444 | 0,0035 | 8,58% | here |
| 1.A.2.a | NE | NE | #WERT! | #WERT! | here |
| 1.A.2.b | IE | IE | #WERT! | #WERT! | here |
| 1.A.2.c | IE | IE | #WERT! | #WERT! | here |
| 1.A.2.d | IE | IE | #WERT! | #WERT! | here |
| 1.A.2.e | NE | NE | #WERT! | #WERT! | here |
| 1.A.2.f | IE | IE | #WERT! | #WERT! | here |
| 1.A.2.g vii | 0,010 | 0,007 | -0,003 | -33,0% | here |
| 1.A.2.g viii | 0,23 | 0,22 | -0,01 | -5,55% | here |
| 1.A.3.a i(i) | 0,00000037 | 0,00000035 | -0,00000002 | -5,24% | here |
| 1.A.3.a ii(i) | 0,000004623 | 0,000004627 | 0,000000003 | 0,07% | here |
| 1.A.3.b i | 0,208 | 0,206 | -0,002 | -1,08% | here |
| 1.A.3.b ii | 0,0353 | 0,0347 | -0,0007 | -1,88% | here |
| 1.A.3.b iii | 0,05 | 0,12 | 0,07 | 130% | here |
| 1.A.3.b iv | 0,00252 | 0,00255 | 0,00003 | 1,02% | here |

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| NFR 1 - Energy | 49,56 | 51,36 | 1,80 | 3,63% | sub-category chapters |
| 1.A.3.b v | NA | NA | #WERT! | #WERT! | here |
| 1.A.3.b vi | 16,46 | 16,48 | 0,02 | 0,15% | here |
| 1.A.3.b vii | 1,0181 | 1,0184 | 0,0003 | 0,03% | here |
| 1.A.3.c | 20,90 | 22,48 | 1,59 | 7,60% | here |
| 1.A.3.d i(ii) | IE | IE | #WERT! | #WERT! | |
| 1.A.3.d ii | 0,029 | 0,031 | 0,002 | 6,10% | here |
| 1.A.3.e i | NA | NA | #WERT! | #WERT! | 1.A.3.e i - Pipeline Transport] |
| 1.A.3.e ii | NA | | | | 1.A.3.e ii - Other Transport: Other] |
| 1.A.4.a i | 2,15 | 2,20 | 0,05 | 2,14% | here |
| 1.A.4.a ii | 0,00121 | | | | here |
| 1.A.4.b i | 3,22116 | 3,22117 | 0,00001 | 0,0003% | here |
| 1.A.4.b ii | 0,0067 | 0,0070 | 0,0003 | 4,60% | here |
| 1.A.4.c i | 0,0780 | 0,0783 | 0,0002 | 0,27% | here |
| 1.A.4.c ii | 0,04 | 0,05 | 0,01 | 30,76% | here |
| 1.A.4.c iii | 0,0003085 | 0,0003085 | 0,0000000 | 0,00% | here |
| 1.A.5.a | NE | NE | #WERT! | #WERT! | here |
| 1.A.5.b | 0,00045806 | 0,00045811 | 0,00000005 | 0,01% | here |
| 1.B.1.a | NA | NA | #WERT! | #WERT! | here |
| 1.B.1.b | NA | NA | #WERT! | #WERT! | here |
| 1.B.1.c | NA | NA | #WERT! | #WERT! | here |
| 1.B.2.a i | NA | NA | #WERT! | #WERT! | |
| 1.B.2.a iv | NA | NA | #WERT! | #WERT! | |
| 1.B.2.a v | NA | NA | #WERT! | #WERT! | |
| 1.B.2.b | NA | NA | #WERT! | #WERT! | |
| 1.B.2.c | NA | NA | #WERT! | #WERT! | |
| 1.B.2.d | NA | NA | #WERT! | #WERT! | |
| NFR 2 - IPPU | 18,58006 | 18,59597 | 0,01590 | 0,09% | sub-category chapters |
| 2.A.1 | NE | NE | #WERT! | #WERT! | here |
| 2.A.2 | NA | NA | #WERT! | #WERT! | here |
| 2.A.3 | 0,09895 | 0,09901 | 0,00007 | 0,07% | here |
| 2.A.5.a | NA | NA | #WERT! | #WERT! | here |
| 2.A.5.b | NA | NA | #WERT! | #WERT! | here |
| 2.A.5.c | NA | NA | #WERT! | #WERT! | here |
| 2.A.6 | NA | NA | #WERT! | #WERT! | here |
| 2.B.1 | NA | NA | #WERT! | #WERT! | here |
| 2.B.2 | NA | NA | #WERT! | #WERT! | here |
| 2.B.3 | NA | NA | #WERT! | #WERT! | here |
| 2.B.5 | NA | NA | #WERT! | #WERT! | here |
| 2.B.6 | NA | NA | #WERT! | #WERT! | here |
| 2.B.7 | NA | NA | #WERT! | #WERT! | here |
| 2.B.10.a | NA | NA | #WERT! | #WERT! | here |
| 2.B.10.b | NA | NA | #WERT! | #WERT! | here |
| 2.C.1 | 17,6389447 | 17,6389447 | 0,0000000 | 0,00% | here |
| 2.C.2 | NE | NE | #WERT! | #WERT! | here |
| 2.C.3 | NE | NE | #WERT! | #WERT! | here |
| 2.C.4 | NA | NA | #WERT! | #WERT! | here |
| 2.C.5 | NA | NA | #WERT! | #WERT! | here |
| 2.C.6 | NA | NA | #WERT! | #WERT! | here |
| 2.C.7.a | NA | NA | #WERT! | #WERT! | here |
| 2.C.7.b | NO | NO | #WERT! | #WERT! | here |
| 2.C.7.c | NA | NA | #WERT! | #WERT! | here |
| 2.C.7.d | NA | NA | #WERT! | #WERT! | here |

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| NATIONAL TOTAL | 68,17 | 69,98 | 1,82 | 2,66% | sub-category chapters |
| NFR 1 - Energy | 49,56 | 51,36 | 1,80 | 3,63% | sub-category chapters |
| 2.D.3.a | NA | NA | #WERT! | #WERT! | here |
| 2.D.3.b | NA | NA | #WERT! | #WERT! | here |
| 2.D.3.c | NA | NA | #WERT! | #WERT! | here |
| 2.D.3.d | NA | NA | #WERT! | #WERT! | here |
| 2.D.3.e | NA | NA | #WERT! | #WERT! | here |
| 2.D.3.f | NA | NA | #WERT! | #WERT! | here |
| 2.D.3.g | 0,0015889 | 0,0015889 | 0,0000000 | 0,00% | here |
| 2.D.3.h | NA | NA | #WERT! | #WERT! | here |
| 2.D.3.i | NA | NA | #WERT! | #WERT! | here |
| 2.G | 0,840583 | 0,856420 | 0,015837 | 1,88% | here |
| 2.H.1 | NA | NA | #WERT! | #WERT! | here |
| 2.H.2 | NA | NA | #WERT! | #WERT! | here |
| 2.H.3 | NA | NA | #WERT! | #WERT! | here |
| 2.I | NA | NA | #WERT! | #WERT! | here |
| 2.J | NO | NO | #WERT! | #WERT! | here |
| 2.K | NA | NA | #WERT! | #WERT! | here |
| 2.L | NA | NA | #WERT! | #WERT! | here |
| NFR 3 - Agriculture | 0,0000000 | 0,0000000 | 0,0000000 | #DIV/0! | sub-category chapters |
| 3.B.1.a | NA | NA | #WERT! | #WERT! | here |
| 3.B.1.b | NA | NA | #WERT! | #WERT! | here |
| 3.B.2 | NA | NA | #WERT! | #WERT! | here |
| 3.B.3 | NA | NA | #WERT! | #WERT! | here |
| 3.B.4.a | NA | NA | #WERT! | #WERT! | here |
| 3.B.4.d | NA | NA | #WERT! | #WERT! | here |
| 3.B.4.e | NA | NA | #WERT! | #WERT! | here |
| 3.B.4.f | NA | NA | #WERT! | #WERT! | here |
| 3.B.4.g i | NA | NA | #WERT! | #WERT! | here |
| 3.B.4.g ii | NA | NA | #WERT! | #WERT! | here |
| 3.B.4.g iii | NA | NA | #WERT! | #WERT! | here |
| 3.B.4.g iv | NA | NA | #WERT! | #WERT! | here |
| 3.B.4.h | NA | NA | #WERT! | #WERT! | here |
| 3.D.a.1 | NA | NA | #WERT! | #WERT! | here |
| 3.D.a.2.a | NA | NA | #WERT! | #WERT! | here |
| 3.D.a.2.b | NA | NA | #WERT! | #WERT! | here |
| 3.D.a.2.c | NA | NA | #WERT! | #WERT! | here |
| 3.D.a.3 | NA | NA | #WERT! | #WERT! | here |
| 3.D.a.4 | NA | NA | #WERT! | #WERT! | here |
| 3.D.b | NA | NA | #WERT! | #WERT! | here |
| 3.D.c | NA | NA | #WERT! | #WERT! | here |
| 3.D.d | NA | NA | #WERT! | #WERT! | here |
| 3.D.e | NA | NA | #WERT! | #WERT! | here |
| 3.D.f | NA | NA | #WERT! | #WERT! | here |
| 3.F | NO | NO | #WERT! | #WERT! | |
| 3.I | NA | NA | #WERT! | #WERT! | here |
| NFR 5 - Waste | 0,030 | 0,028 | -0,002 | -5,81% | sub-category chapters |
| 5.A | NA | NA | #WERT! | #WERT! | here |
| 5.B.1 | NA | NA | #WERT! | #WERT! | here |
| 5.B.2 | NA | NA | #WERT! | #WERT! | here |
| 5.C.1.a | NO | NO | #WERT! | #WERT! | |
| 5.C.1.b i | NO | NO | #WERT! | #WERT! | |
| 5.C.1.b ii | NO | NO | #WERT! | #WERT! | |
| 5.C.1.b iii | NO | NO | #WERT! | #WERT! | |

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|-----------------------|-----------------|-----------------|-------------|-----------------|--|
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| NATIONAL TOTAL | 68,17 | 69,98 | 1,82 | 2,66% | sub-category chapters |
| NFR 1 - Energy | 49,56 | 51,36 | 1,80 | 3,63% | sub-category chapters |
| 5.C.1.b iv | NO | NO | #WERT! | #WERT! | |
| 5.C.1.b v | NE | NE | #WERT! | #WERT! | here |
| 5.C.1.b vi | NA | NA | #WERT! | #WERT! | |
| 5.C.2 | NE | NE | #WERT! | #WERT! | here |
| 5.D.1 | NA | NA | #WERT! | #WERT! | here |
| 5.D.2 | NA | NA | #WERT! | #WERT! | here |
| 5.D.3 | NO | NO | #WERT! | #WERT! | |
| 5.E | 0,030 | 0,028 | -0,002 | -5,81% | here |
| NFR 6 - Other | 0,0000000 | 0,0000000 | 0,0000000 | #DIV/0! | |