



Recalculations - Nickel (Ni)

The small changes in the **National Total reported for 1990 (-1.2 t | -0.35 %)** are dominated by a revision in **NFR 2.G with -1.18 t or -46 %**.

Table 1: Changes in emission estimates for 1990

|  f<image Ni_1990.png size="medium" data-bbox="74 178 238 203"/> | Submission 2021 | Submission 2022 | Difference | | Reasoning |
|--|-----------------|-----------------|-----------------|---------------|---|
| NFR Sector | [t] | | | relative | see description and reasoning in: |
| NATIONAL TOTAL | 339,57 | 332,74 | -6,83 | -2,01% | sub-category chapters |
| NFR 1 - Energy | 311,98 | 305,13 | -6,85 | -2,20% | sub-category chapters |
| 1.A.1.a | 88,92 | 88,92 | 0,00 | 0,00% | here |
| 1.A.1.b | 69,56 | 69,56 | 0,00 | 0,00% | here |
| 1.A.1.c | 36,47 | 36,47 | 0,00 | 0,00% | here |
| 1.A.2.a | NE | NE | #WERT! | #WERT! | here |
| 1.A.2.b | NE | NE | #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 | 0,000299 | 0,000299 | 0,000000 | 0,00% | here |
| 1.A.2.g viii | 45,14 | 45,14 | 0,000000 | 0,00% | here |
| 1.A.3.a i(i) | 0,0000014 | 0,0000009 | -0,0000005 | -33,33% | here |
| 1.A.3.a ii(i) | 0,000019 | | | | here |
| 1.A.3.b i | 0,0688 | | | | here |
| 1.A.3.b ii | 0,0016 | | | | here |
| 1.A.3.b iii | 0,0022 | 0,0022 | 0,000000 | 0,00% | here |
| 1.A.3.b iv | 0,0011 | 0,0011 | 0,000000 | 0,00% | here |
| 1.A.3.b v | NA | NA | #WERT! | #WERT! | here |
| 1.A.3.b vi | 1,91 | 1,91 | 0,000000 | 0,00% | here |
| 1.A.3.b vii | 0,40 | 0,40 | 0,000000 | 0,00% | here |
| 1.A.3.c | 55,24 | 55,26 | 0,02 | 0,04% | here |
| 1.A.3.d i(ii) | IE | IE | #WERT! | #WERT! | |
| 1.A.3.d ii | 9,70 | 2,73 | -6,97 | -71,89% | here |
| 1.A.3.e i | NA | NA | #WERT! | #WERT! | 1.A.3.e i - Pipeline Transport] |
| 1.A.3.e ii | NA | NA | #WERT! | #WERT! | 1.A.3.e ii - Other Transport: Other] |
| 1.A.4.a i | 0,75 | 0,75 | 0,000000 | 0,00% | here |
| 1.A.4.a ii | 0,0000365 | 0,0000365 | 0,000000 | 0,00% | here |
| 1.A.4.b i | 3,50 | 3,50 | 0,000000 | 0,00% | here |
| 1.A.4.b ii | 0,023 | 0,024 | 0,001 | 2,78% | here |
| 1.A.4.c i | 0,20 | 0,20 | 0,000000 | 0,00% | here |
| 1.A.4.c ii | 0,045725 | 0,045725 | 0,000000 | 0,00% | here |
| 1.A.4.c iii | 0,035 | 0,034 | -0,002 | -5,19% | here |
| 1.A.5.a | NE | NE | #WERT! | #WERT! | here |
| 1.A.5.b | 0,02 | 0,13 | 0,11 | 440,71% | 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! | |

|  Submission 2021 | Submission 2022 | Difference | | Reasoning | |
|--|------------------------|-------------------|--------------|------------------|--|
| NFR Sector | [t] | | | relative | see description and reasoning in: |
| NATIONAL TOTAL | 339,57 | 332,74 | -6,83 | -2,01% | sub-category chapters |
| NFR 1 - Energy | 311,98 | 305,13 | -6,85 | -2,20% | sub-category chapters |
| 1.B.2.c | NA | NA | #WERT! | #WERT! | |
| 1.B.2.d | NA | NA | #WERT! | #WERT! | |
| NFR 2 - IPPU | 27,59 | 27,61 | 0,02 | 0,07% | sub-category chapters |
| 2.A.1 | NE | NE | #WERT! | #WERT! | here |
| 2.A.2 | NA | NA | #WERT! | #WERT! | here |
| 2.A.3 | 0,06 | 0,08 | 0,03 | 43,63% | 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 | 18,52 | 18,52 | 0,00 | 0,00% | here |
| 2.C.2 | NA | NA | #WERT! | #WERT! | here |
| 2.C.3 | 7,40 | 7,40 | 0,00 | 0,00% | here |
| 2.C.4 | NE | NE | #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 | 0,02 | 0,02 | 0,00 | 0,00% | here |
| 2.C.7.c | NA | NA | #WERT! | #WERT! | here |
| 2.C.7.d | NA | NA | #WERT! | #WERT! | here |
| 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 | NA | 0,01 | #WERT! | #WERT! | here |
| 2.D.3.h | NA | NA | #WERT! | #WERT! | here |
| 2.D.3.i | NA | NA | #WERT! | #WERT! | here |
| 2.G | 1,59 | 1,58 | -0,01 | -0,73% | 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 | NA | NA | #WERT! | #WERT! | here |
| 2.K | NE | NE | #WERT! | #WERT! | here |
| 2.L | NA | NA | #WERT! | #WERT! | here |
| NFR 3 - Agriculture | 0,00 | 0,00 | 0,00 | #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 |

| f<image Ni_1990.png size="medium" | Submission 2021 | Submission 2022 | Difference | | Reasoning |
|-----------------------------------|-----------------|-----------------|--------------|----------------|--|
| | | | [t] | relative | |
| NFR Sector | | | | | see description and reasoning in: |
| NATIONAL TOTAL | 339,57 | 332,74 | -6,83 | -2,01% | sub-category chapters |
| NFR 1 - Energy | 311,98 | 305,13 | -6,85 | -2,20% | sub-category chapters |
| 3.B.4.a | NO | NO | #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 | 0,00 | 0,00 | 0,00 | #DIV/0! | 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! | |
| 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 | NE | NE | #WERT! | #WERT! | here |
| NFR 6 - Other | NA | | | | |

The changes in the **National Total reported for 2018 (-8.6 t | -5.5 %)** are dominated by a revision in **NFRs 1.A.1.b with -7.15 t and 2.G with -1.7 t** together with more or less significant revisions throughout NFRs 1 and 2.

The most significant relative change occurs for **NFR 2.G with minus 50 %**.

Table 1: Changes in emission estimates for 2018

| NFR Sector | Submission 2020 | Submission 2021 | Difference | | Reasoning |
|-----------------------|-----------------|-----------------|--------------|---------------|------------------------------|
| | | | [t] | relative | |
| NATIONAL TOTAL | 155,32 | 146,73 | -8,59 | -5,53% | sub-category chapters |
| NFR 1 - Energy | 145,59 | 138,71 | -6,88 | -4,73% | sub-category chapters |

| | Submission 2020 | Submission 2021 | Difference | | Reasoning |
|----------------------------|-----------------|-----------------|--------------|-----------------|--|
| NFR Sector | [t] | | | relative | see description and reasoning in: |
| NATIONAL TOTAL | 155,32 | 146,73 | -8,59 | -5,53% | sub-category chapters |
| NFR 1 - Energy | 145,59 | 138,71 | -6,88 | -4,73% | sub-category chapters |
| 1.A.1.a | 4,01 | 4,15 | 0,13 | 3,28% | here |
| 1.A.1.b | 85,01 | 77,85 | -7,15 | -8,42% | here |
| 1.A.1.c | 0,030 | 0,032 | 0,002 | 7,39% | here |
| 1.A.2.g vii | 0,00038 | 0,00039 | 0,00001 | 2,35% | here |
| 1.A.2.g viii | 2,436 | 2,606 | 0,17 | 6,94% | here |
| 1.A.3.a i(i) | NE | 0,000001 | 0,000001 | | here |
| 1.A.3.a ii(i) | 0,00002 | 0,00001 | -0,00001 | -36,34% | here |
| 1.A.3.b i | 0,0399 | 0,0401 | 0,0001 | 0,33% | here |
| 1.A.3.b ii | 0,00108 | 0,00106 | -0,00001 | -1,15% | here |
| 1.A.3.b iii | 0,0031 | 0,0030 | -0,0001 | -3,34% | here |
| 1.A.3.b iv | 0,00099 | 0,00098 | -0,00001 | -1,19% | here |
| 1.A.3.b vi | 2,809 | 2,805 | -0,004 | -0,14% | here |
| 1.A.3.b vii | 0,587 | 0,586 | -0,002 | -0,28% | here |
| 1.A.3.c | 49,414 | 49,412 | -0,003 | -0,01% | here |
| 1.A.3.d ii | 0,60 | 0,54 | -0,06 | -10,04% | here |
| 1.A.4.a i | 0,046 | 0,043 | -0,003 | -6,78% | here |
| 1.A.4.a ii | 0,000034 | 0,000029 | -0,000005 | -15,33% | here |
| 1.A.4.b i | 0,49 | 0,53 | 0,04 | 7,84% | here |
| 1.A.4.b ii | 0,015 | 0,014 | -0,001 | -4,70% | here |
| 1.A.4.c i | 0,0061 | 0,0064 | 0,0003 | 4,52% | here |
| 1.A.4.c ii | 0,025 | 0,027 | 0,002 | 9,20% | here |
| 1.A.4.c iii | 0,057 | 0,059 | 0,002 | 3,03% | here |
| 1.A.5.b | 0,0100 | 0,0103 | 0,0003 | 2,99% | here |
| NFR 2 - IPPU | 9,73 | 8,02 | -1,71 | -17,61% | sub-category chapters |
| 2.A.3 | 0,0568 | 0,0566 | -0,0002 | -0,38% | here |
| 2.G | 3,44 | 1,72 | -1,71 | -49,85% | here |
| NFR 3 - Agriculture | NA | | | | |
| NFR 5 - Waste | NA | | | | |
| NFR 6 - Other | NA | | | | |