

# Recalculations - Ammonia

The changes within the **National Total** reported for **1990 (+8.8 kt or +1.2 %)** are dominated by **newly implemented emission estimates for NFR 6.A (+ 6.25 kt)** together with less significant changes throughout NFRs 1 and 3.

The most significant percental change occurs for **NFR 3.D.a.2.c with plus 559 %**.

Table 1: Changes in emission estimates for 1990

|                            | Submission 2023 | Submission 2024 | Difference    |               | Reasoning                         |
|----------------------------|-----------------|-----------------|---------------|---------------|-----------------------------------|
| NFR Sector                 | [kt]            |                 |               | relative      | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>725,52</b>   | <b>734,36</b>   | <b>8,84</b>   | <b>1,22%</b>  | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>15,8891</b>  | <b>15,8897</b>  | <b>0,0006</b> | <b>0,004%</b> | <b>sub-category chapters</b>      |
| 1.A.2.g vii                | 0,008           | 0,006           | -0,002        | -28,7%        | <a href="#">here</a>              |
| 1.A.3.a i(i)               | 0,0493          | 0,0492          | -0,0001       | -0,13%        | <a href="#">here</a>              |
| 1.A.3.a ii(i)              | 0,0349          | 0,0353          | 0,0004        | 1,16%         | <a href="#">here</a>              |
| 1.A.3.c                    | 0,0318          | 0,0319          | 0,0001        | 0,25%         | <a href="#">here</a>              |
| 1.A.3.d ii                 | 0,01056         | 0,01055         | -0,00001      | -0,07%        | <a href="#">here</a>              |
| 1.A.4.a ii                 | 0,0018          | 0,0016          | -0,0002       | -8,57%        | <a href="#">here</a>              |
| 1.A.4.c ii                 | 0,009           | 0,011           | 0,003         | 29,6%         | <a href="#">here</a>              |
| <b>NFR 2 - IPPU</b>        | <b>14,68</b>    | <b>14,68</b>    | <b>0,00</b>   | <b>0,00%</b>  |                                   |
| <b>NFR 3 - Agriculture</b> | <b>686,62</b>   | <b>689,20</b>   | <b>2,58</b>   | <b>0,38%</b>  | <b>sub-category chapters</b>      |
| 3.B.4.g i                  | 11,41           | 11,40           | -0,02         | -0,14%        | <a href="#">here</a>              |
| 3.B.4.g iv                 | 2,470           | 2,472           | 0,002         | 0,08%         | <a href="#">here</a>              |
| 3.D.a.1                    | 78,82           | 78,71           | -0,11         | -0,14%        | <a href="#">here</a>              |
| 3.D.a.2.a                  | 285,58          | 286,21          | 0,63          | 0,22%         | <a href="#">here</a>              |
| 3.D.a.2.c                  | 0,24            | 1,55            | 1,32          | 559%          | <a href="#">here</a>              |
| 3.D.a.3                    | 22,24           | 22,37           | 0,14          | 0,61%         | <a href="#">here</a>              |
| 3.l                        | 0,002           | 0,001           | 0,00          | -5,19%        | <a href="#">here</a>              |
| <b>NFR 5 - Waste</b>       | <b>0,34</b>     | <b>0,34</b>     | <b>0,00</b>   | <b>0,00%</b>  |                                   |
| <b>NFR 6 - Other</b>       | <b>8,00</b>     | <b>14,25</b>    | <b>6,25</b>   | <b>78,2%</b>  | <b>sub-category chapters</b>      |
| 6.A                        | 8,00            | 14,25           | 6,25          | 78,2%         |                                   |

Changes within the **National Total** reported for **2020 (-7.49 kt | -1.4 %)** result mainly from several larger revisions in **NFR 3 (-17.2 kt)** and **newly implemented emission estimates from NFR 6 (+ 8 kt)** together with less significant changes throughout NFRs 1, 2 and 5.

The most significant relative change occurs for **NFR 1.A.4.a i with plus 38 %**.

Table 2: Changes in emission estimates for 2020

|                       | Submission 2023 | Submission 2024 | Difference   |               | Reasoning                         |
|-----------------------|-----------------|-----------------|--------------|---------------|-----------------------------------|
| NFR Sector            | [kt]            |                 |              | relative      | see description and reasoning in: |
| <b>NATIONAL TOTAL</b> | <b>515,77</b>   | <b>525,48</b>   | <b>9,71</b>  | <b>1,88%</b>  | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b> | <b>12,72</b>    | <b>12,50</b>    | <b>-0,22</b> | <b>-1,71%</b> | <b>sub-category chapters</b>      |
| 1.A.1.a               | 0,624           | 0,620           | -0,004       | -0,70%        | <a href="#">here</a>              |
| 1.A.1.b               | 0,528           | 0,527           | -0,001       | -0,19%        | <a href="#">here</a>              |
| 1.A.1.c               | 0,0244          | 0,0249          | 0,0005       | 1,89%         | <a href="#">here</a>              |
| 1.A.2.a               | 0,103           | 0,099           | -0,004       | -3,74%        | <a href="#">here</a>              |
| 1.A.2.b               | 0,0059          | 0,0075          | 0,002        | 27,5%         | <a href="#">here</a>              |
| 1.A.2.c               | IE              | IE              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 1.A.2.d               | IE              | IE              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 1.A.2.e               | 0,0010          | 0,0012          | 0,0002       | 25,3%         | <a href="#">here</a>              |
| 1.A.2.f               | 0,020           | 0,022           | 0,003        | 13,5%         | <a href="#">here</a>              |
| 1.A.2.g vii           | 0,008           | 0,006           | -0,003       | -33,8%        | <a href="#">here</a>              |
| 1.A.2.g viii          | 0,391           | 0,381           | -0,010       | -2,51%        | <a href="#">here</a>              |
| 1.A.3.a i(i)          | 0,060           | 0,060           | 0,000        | -0,22%        | <a href="#">here</a>              |

|                       | Submission 2023 | Submission 2024 | Difference      |               | Reasoning                                             |
|-----------------------|-----------------|-----------------|-----------------|---------------|-------------------------------------------------------|
| NFR Sector            | [kt]            |                 |                 | relative      | see description and reasoning in:                     |
| <b>NATIONAL TOTAL</b> | <b>515,77</b>   | <b>525,48</b>   | <b>9,71</b>     | <b>1,88%</b>  | <b>sub-category chapters</b>                          |
| <b>NFR 1 - Energy</b> | <b>12,72</b>    | <b>12,50</b>    | <b>-0,22</b>    | <b>-1,71%</b> | <b>sub-category chapters</b>                          |
| 1.A.3.a ii(i)         | 0,0132          | 0,0125          | -0,0007         | -5,40%        | <a href="#">here</a>                                  |
| 1.A.3.b i             | 8,253           | 8,010           | -0,24           | -2,93%        | <a href="#">here</a>                                  |
| 1.A.3.b ii            | 0,261           | 0,251           | -0,010          | -3,85%        | <a href="#">here</a>                                  |
| 1.A.3.b iii           | 0,716           | 0,718           | 0,002           | 0,31%         | <a href="#">here</a>                                  |
| 1.A.3.b iv            | 0,0205          | 0,0200          | -0,0005         | -2,24%        | <a href="#">here</a>                                  |
| 1.A.3.b v             | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 1.A.3.b vi            | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 1.A.3.b vii           | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 1.A.3.c               | 0,008           | 0,008           | 0,000           | 0,05%         | <a href="#">here</a>                                  |
| 1.A.3.d i(ii)         | IE              | IE              | #WERT!          | #WERT!        |                                                       |
| 1.A.3.d ii            | 0,0053          | 0,0057          | 0,0004          | 7,28%         | <a href="#">here</a>                                  |
| 1.A.3.e i             | NA              | NA              | #WERT!          | #WERT!        | <a href="#">1.A.3.e i - Pipeline Transport ]</a>      |
| 1.A.3.e ii            | NA              | NA              | #WERT!          | #WERT!        | <a href="#">1.A.3.e ii - Other Transport: Other ]</a> |
| 1.A.4.a i             | 0,457           | 0,233           | -0,22           | -49,1%        | <a href="#">here</a>                                  |
| <b>1.A.4.a ii</b>     | <b>0,001838</b> | <b>0,001898</b> | <b>0,000060</b> | <b>3,26%</b>  | <a href="#">here</a>                                  |
| 1.A.4.b i             | 1,126           | 1,388           | 0,26            | 23,3%         | <a href="#">here</a>                                  |
| 1.A.4.b ii            | 0,00029         | 0,00031         | 0,00001         | 4,60%         | <a href="#">here</a>                                  |
| 1.A.4.c i             | 0,050           | 0,059           | 0,009           | 17,8%         | <a href="#">here</a>                                  |
| 1.A.4.c ii            | 0,010           | 0,013           | 0,003           | 30,3%         | <a href="#">here</a>                                  |
| <b>1.A.4.c iii</b>    | <b>0,00009</b>  | <b>0,00009</b>  | <b>0,00000</b>  | <b>0,00%</b>  | <a href="#">here</a>                                  |
| 1.A.5.a               | 0,0042297       | 0,0042302       | 0,0000005       | 0,01%         | <a href="#">here</a>                                  |
| 1.A.5.b               | 0,02792         | 0,02792         | 0,00000         | 0,00%         | <a href="#">here</a>                                  |
| 1.B.1.a               | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 1.B.1.b               | 0,002           | 0,002           | 0,000           | 0,00%         | <a href="#">here</a>                                  |
| 1.B.1.c               | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 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          | 8,85            | 8,69            | -0,16           | -1,80%        | sub-category chapters                                 |
| 2.A.1                 | 1,13            | 1,13            | 0,00            | 0,00%         | <a href="#">here</a>                                  |
| <b>2.A.2</b>          | <b>IE</b>       | <b>IE</b>       | <b>#WERT!</b>   | <b>#WERT!</b> | <a href="#">here</a>                                  |
| 2.A.3                 | 1,16            | 1,00            | -0,16           | -13,80%       | <a href="#">here</a>                                  |
| 2.A.5.a               | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| <b>2.A.5.b</b>        | <b>NA</b>       | <b>NA</b>       | <b>#WERT!</b>   | <b>#WERT!</b> | <a href="#">here</a>                                  |
| 2.A.5.c               | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 2.A.6                 | 0,05            | 0,05            | 0,00            | 0,00%         | <a href="#">here</a>                                  |
| 2.B.1                 | 0,03            | 0,03            | 0,00            | 0,00%         | <a href="#">here</a>                                  |
| 2.B.2                 | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 2.B.3                 | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 2.B.5                 | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 2.B.6                 | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 2.B.7                 | 1,27            | 1,27            | 0,00            | 0,00%         | <a href="#">here</a>                                  |
| 2.B.10.a              | 4,49            | 4,49            | 0,00            | 0,00%         | <a href="#">here</a>                                  |
| 2.B.10.b              | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 2.C.1                 | 0,09            | 0,09            | 0,00            | 0,00%         | <a href="#">here</a>                                  |
| 2.C.2                 | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 2.C.3                 | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 2.C.4                 | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |
| 2.C.5                 | NA              | NA              | #WERT!          | #WERT!        | <a href="#">here</a>                                  |

|                       | Submission 2023 | Submission 2024 | Difference   |               | Reasoning                         |
|-----------------------|-----------------|-----------------|--------------|---------------|-----------------------------------|
| NFR Sector            | [kt]            |                 |              | relative      | see description and reasoning in: |
| <b>NATIONAL TOTAL</b> | <b>515,77</b>   | <b>525,48</b>   | <b>9,71</b>  | <b>1,88%</b>  | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b> | <b>12,72</b>    | <b>12,50</b>    | <b>-0,22</b> | <b>-1,71%</b> | <b>sub-category chapters</b>      |
| 2.C.6                 | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.C.7.a               | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.C.7.b               | NO              | NO              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.C.7.c               | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.C.7.d               | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.D.3.a               | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.D.3.b               | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.D.3.c               | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.D.3.d               | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.D.3.e               | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.D.3.f               | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.D.3.g               | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.D.3.h               | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.D.3.i               | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.G                   | 0,63            | 0,63            | 0,00         | 0,00%         | <a href="#">here</a>              |
| 2.H.1                 | NE              | NE              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.H.2                 | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.H.3                 | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.I                   | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.J                   | NO              | NO              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.K                   | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 2.L                   | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| NFR 3 - Agriculture   | 482,32          | 482,30          | -0,02        | -0,003%       | sub-category chapters             |
| 3.B.1.a               | 53,81           | 53,91           | 0,10         | 0,19%         | <a href="#">here</a>              |
| 3.B.1.b               | 48,55           | 48,75           | 0,20         | 0,41%         | <a href="#">here</a>              |
| 3.B.2                 | 1,48            | 1,48            | 0,00         | 0,00%         | <a href="#">here</a>              |
| 3.B.3                 | 72,41           | 72,37           | -0,04        | -0,05%        | <a href="#">here</a>              |
| 3.B.4.a               | IE              | IE              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 3.B.4.d               | 0,258           | 0,258           | 0,000        | 0,00%         | <a href="#">here</a>              |
| 3.B.4.e               | 6,24            | 6,24            | 0,00         | 0,00%         | <a href="#">here</a>              |
| 3.B.4.f               | IE              | IE              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 3.B.4.g i             | 6,91            | 6,87            | -0,04        | -0,63%        | <a href="#">here</a>              |
| 3.B.4.g ii            | 8,13            | 8,11            | -0,03        | -0,31%        | <a href="#">here</a>              |
| 3.B.4.g iii           | 9,07            | 9,04            | -0,03        | -0,35%        | <a href="#">here</a>              |
| 3.B.4.g iv            | 1,53            | 1,52            | -0,01        | -0,92%        | <a href="#">here</a>              |
| 3.B.4.h               | NE              | 0,12            | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 3.D.a.1               | 34,87           | 35,02           | 0,15         | 0,44%         | <a href="#">here</a>              |
| 3.D.a.2.a             | 167,43          | 168,12          | 0,69         | 0,41%         | <a href="#">here</a>              |
| 3.D.a.2.b             | 1,67            | 1,61            | -0,06        | -3,85%        | <a href="#">here</a>              |
| 3.D.a.2.c             | 54,31           | 53,83           | -0,48        | -0,89%        | <a href="#">here</a>              |
| 3.D.a.3               | 12,47           | 12,75           | 0,29         | 2,30%         | <a href="#">here</a>              |
| 3.D.a.4               | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 3.D.b                 | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 3.D.c                 | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 3.D.d                 | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 3.D.e                 | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 3.D.f                 | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 3.F                   | NO              | NO              | #WERT!       | #WERT!        |                                   |
| 3.I                   | 3,18            | 2,31            | -0,86        | -27,2%        | <a href="#">here</a>              |
| NFR 5 - Waste         | 3,54            | 3,78            | 0,24         | 6,92%         | sub-category chapters             |
| 5.A                   | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 5.B.1                 | 2,02            | 2,00            | -0,02        | -1,05%        | <a href="#">here</a>              |

|                       | Submission 2023 | Submission 2024 | Difference   |               | Reasoning                         |
|-----------------------|-----------------|-----------------|--------------|---------------|-----------------------------------|
| NFR Sector            | [kt]            |                 |              | relative      | see description and reasoning in: |
| <b>NATIONAL TOTAL</b> | <b>515,77</b>   | <b>525,48</b>   | <b>9,71</b>  | <b>1,88%</b>  | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b> | <b>12,72</b>    | <b>12,50</b>    | <b>-0,22</b> | <b>-1,71%</b> | <b>sub-category chapters</b>      |
| 5.B.2                 | 1,52            | 1,78            | 0,27         | 17,55%        | <a href="#">here</a>              |
| 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             | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 5.C.1.b vi            | NA              | NA              | #WERT!       | #WERT!        |                                   |
| 5.C.2                 | NE              | NE              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 5.D.1                 | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 5.D.2                 | NA              | NA              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| 5.D.3                 | NO              | NO              | #WERT!       | #WERT!        |                                   |
| 5.E                   | NE              | NE              | #WERT!       | #WERT!        | <a href="#">here</a>              |
| NFR 6 - Other         | 8,35            | 18,21           | 9,86         | 118%          |                                   |