

# Recalculations - Ammonia

## Revision of Ammonia emissions over time

The small changes within the **National Total reported for 1990 (+4.45 kt | +0.59 %)** result almost entirely from revisions in **NFR 1.A.3.b i** together with less significant changes throughout NFRs 1 and 2.

Here, the strongest relative change occurs for **NFR 1.A.3.b i with +739%**.

Table 1: Changes in emission estimates for 1990

|                            | Submission 2020 | Submission 2021 | Difference    |               | Reasoning                         |
|----------------------------|-----------------|-----------------|---------------|---------------|-----------------------------------|
| NFR Code                   | [kt]            |                 |               | relative      | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>760,05</b>   | <b>715,09</b>   | <b>-44,97</b> | <b>-5,92%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>16,01509</b> | <b>15,53011</b> | <b>-0,48</b>  | <b>-3,03%</b> | <b>sub-category chapters</b>      |
| 1.A.2.g vii                | 0,0078          | 0,0079          | 0,0001        | 1,75%         | <a href="#">here</a>              |
| 1.A.3.a i(i)               | 0,05            | 0,05            | 0,00          | -3,57%        | <a href="#">here</a>              |
| 1.A.3.a ii(i)              | 0,04            | 0,04            | 0,00          | 6,35%         | <a href="#">here</a>              |
| 1.A.3.b i                  | 7,85            | 7,37            | -0,48         | -6,13%        | <a href="#">here</a>              |
| 1.A.3.b ii                 | 0,03            | 0,02            | -0,01         | -21,30%       | <a href="#">here</a>              |
| 1.A.3.b iii                | 0,08            | 0,08            | 0,00          | 4,14%         | <a href="#">here</a>              |
| 1.A.3.b iv                 | 0,03            | 0,03            | 0,00          | -6,18%        | <a href="#">here</a>              |
| 1.A.4.a ii                 | 0,00            | 0,00            | 0,00          | 12,98%        | <a href="#">here</a>              |
| 1.A.4.c ii                 | 0,01            | 0,01            | 0,00          | -1,13%        | <a href="#">here</a>              |
| <b>NFR 2 - IPPU</b>        | <b>19,08</b>    | <b>17,81</b>    | <b>-1,27</b>  | <b>-6,66%</b> | <b>sub-category chapters</b>      |
| 2.G                        | 2,18            | 0,90            | -1,27         | -58,42%       | <a href="#">here</a>              |
| <b>NFR 3 - Agriculture</b> | <b>724,79</b>   | <b>681,58</b>   | <b>-43,21</b> | <b>-5,96%</b> | <b>sub-category chapters</b>      |
| 3.B.1.a                    | 75,05           | 62,19           | -12,86        | -17,14%       | <a href="#">here</a>              |
| 3.B.1.b                    | 101,28          | 91,39           | -9,88         | -9,76%        | <a href="#">here</a>              |
| 3.B.2                      | 2,56            | 2,71            | 0,15          | 5,83%         | <a href="#">here</a>              |
| 3.B.4.g i                  | 13,15           | 11,45           | -1,70         | -12,91%       | <a href="#">here</a>              |
| 3.B.4.g ii                 | 3,67            | 5,07            | 1,40          | 38,09%        | <a href="#">here</a>              |
| 3.B.4.g iii                | 3,94            | 3,96            | 0,02          | 0,49%         | <a href="#">here</a>              |
| 3.B.4.g iv                 | 1,95            | 2,48            | 0,53          | 27,45%        | <a href="#">here</a>              |
| 3.D.a.1                    | 78,45           | 78,82           | 0,38          | 0,48%         | <a href="#">here</a>              |
| 3.D.a.2.a                  | 302,62          | 273,67          | -28,96        | -9,57%        | <a href="#">here</a>              |
| 3.D.a.3                    | 14,45           | 22,16           | 7,71          | 53,32%        | <a href="#">here</a>              |
| <b>NFR 5 - Waste</b>       | <b>0,16</b>     | <b>0,16</b>     | <b>0,00</b>   | <b>0,00%</b>  |                                   |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |               |               |                                   |

The small changes within the **National Total reported for 2017 (-7.57 kt | -1.12 %)** result mainly from a variety of more or less significant revisions throughout **NFRs 1 and 3**.

Here, the strongest relative change occurs for **NFR 1.A.3.b iii with +217%**.

Table 2: Changes in emission estimates for 2018