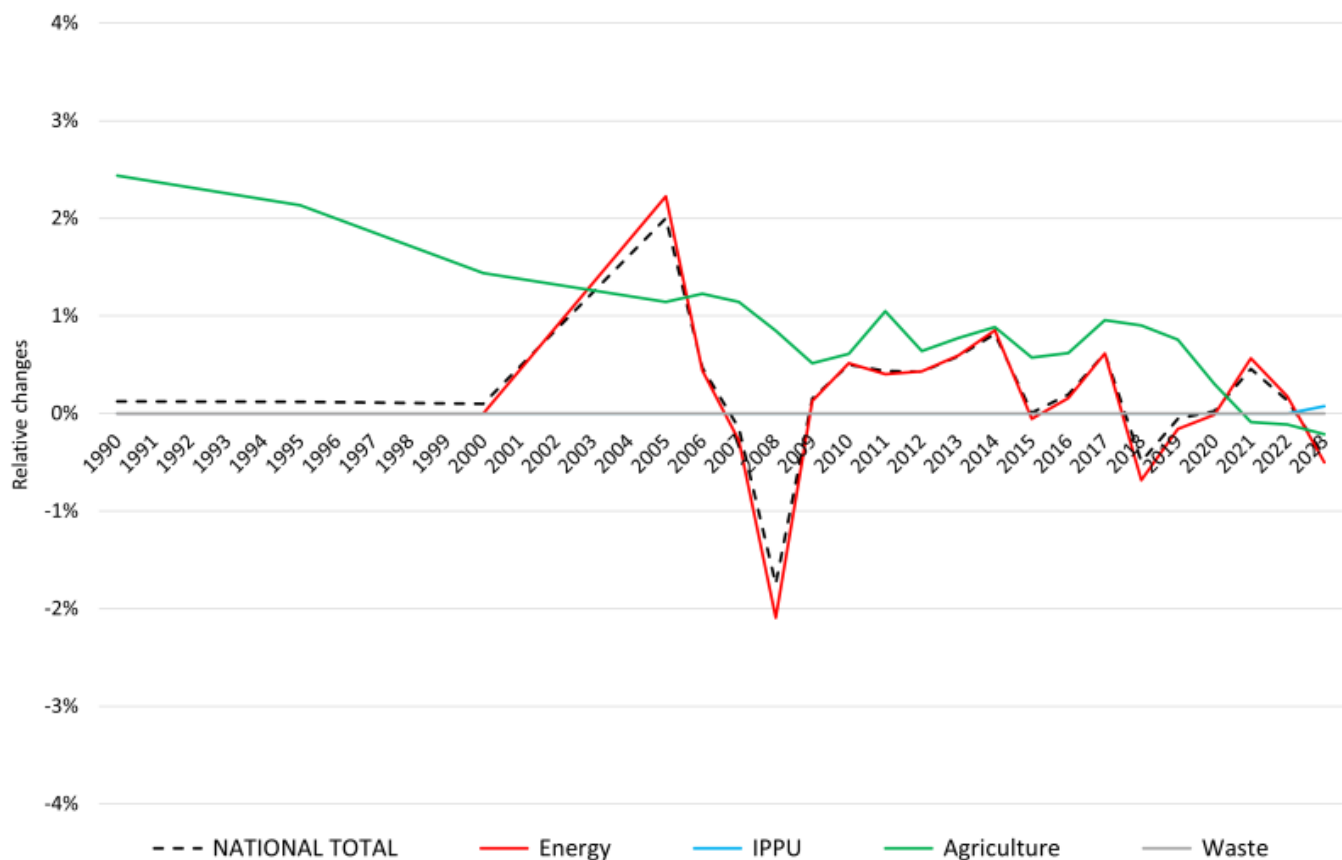
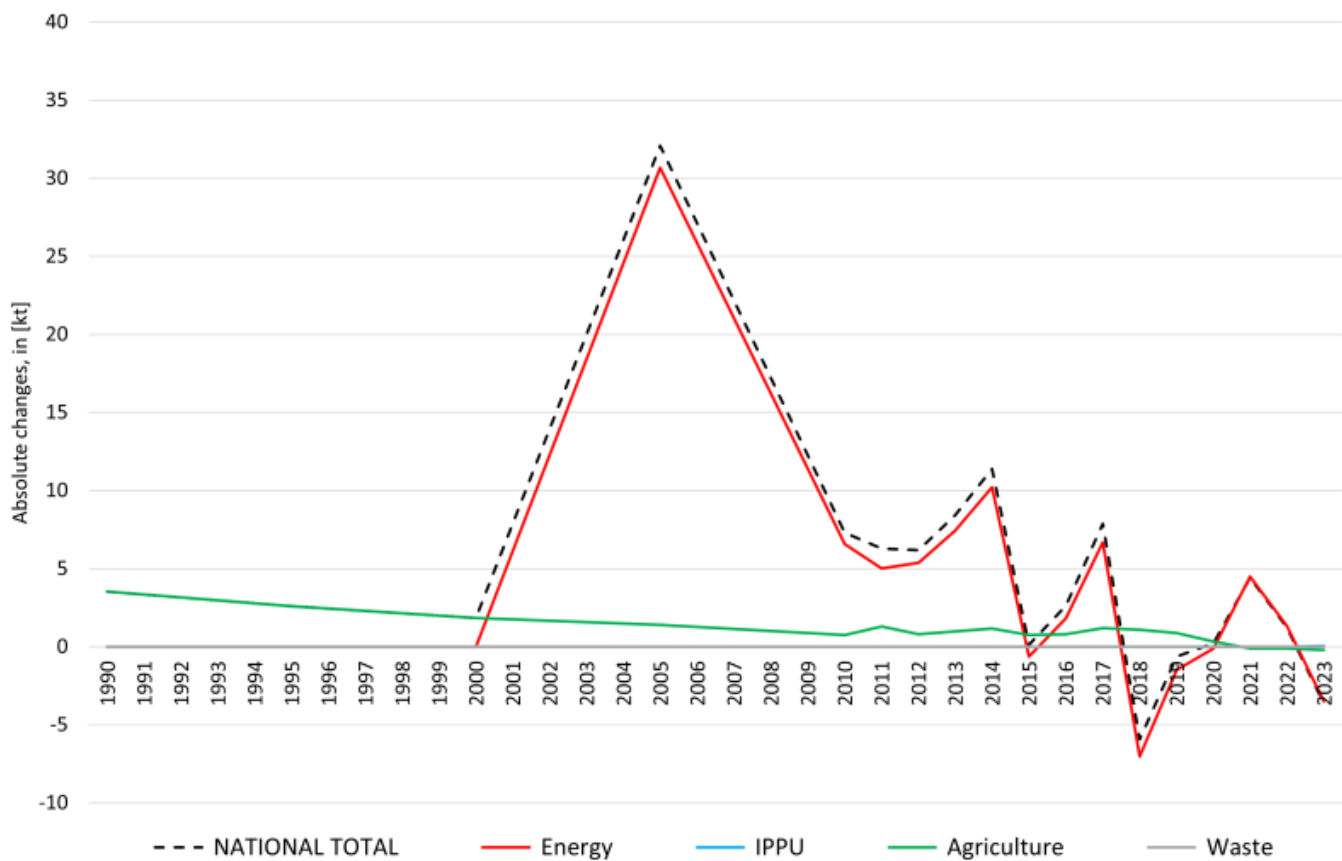


# Recalculations - Nitrogen Oxides



The marginal changes within the **National Total** reported for **1990 (+3.77 kt or +0.13 %)** are dominated by changes in NFRs **1.A.3.d ii**, and **1.A.2.g vii** and **1.A.4.c ii** together with less significant revisions throughout NFRs 1, 2 and 3.

The most significant percental change occurs for **NFR 3.B.4.e with plus 450 %**.

Table 1: Changes of emission estimates 1990

|                            | Submission 2024 |                 | Submission 2025 |              |                                   |
|----------------------------|-----------------|-----------------|-----------------|--------------|-----------------------------------|
| NFR Sector                 | [kt]            |                 | relative        |              | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>2,842.27</b> | <b>2.846.04</b> | <b>3.77</b>     | <b>0.13%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>2,597.94</b> | <b>2.599.34</b> | <b>1.40</b>     | <b>0.05%</b> | <b>sub-category chapters</b>      |
| 1.A.2.g vii                | 35.42           | 34.65           | -0.76           | -2.16%       | <a href="#">here</a>              |
| 1.A.3.d ii                 | 51.59           | 53.25           | 1.66            | 3.22%        | <a href="#">here</a>              |
| 1.A.4.a ii                 | 10.59           | 10.44           | -0.15           | -1.40%       | <a href="#">here</a>              |
| 1.A.4.c ii                 | 63.59           | 64.29           | 0.69            | 1.09%        | <a href="#">here</a>              |
| 1.A.4.c iii                | 0.39            | 0.38            | -0.01           | -1.90%       | <a href="#">here</a>              |
| 1.A.5.b                    | 41.20           | 41.17           | -0.03           | -0.08%       | <a href="#">here</a>              |
| <b>NFR 2 - IPPU</b>        | <b>100.73</b>   | <b>100.73</b>   | <b>0.00</b>     | <b>0.00%</b> |                                   |
| <b>NFR 3 - Agriculture</b> | <b>142.87</b>   | <b>145.23</b>   | <b>2.36</b>     | <b>1.65%</b> | <b>sub-category chapters</b>      |
| 3.B.1.a                    | 0.67            | 0.89            | 0.22            | 33.0%        | <a href="#">here</a>              |
| 3.B.1.b                    | 0.6896          | 0.8427          | 0.15            | 22.2%        | <a href="#">here</a>              |
| 3.B.2                      | 0.02            | 0.04            | 0.02            | 100%         | <a href="#">here</a>              |
| 3.B.3                      | 0.28            | 0.36            | 0.08            | 28.1%        | <a href="#">here</a>              |
| 3.B.4.d                    | 0.00114         | 0.00228         | 0.00114         | 100%         | <a href="#">here</a>              |
| 3.B.4.e                    | 0.042           | 0.232           | 0.190           | 450%         | <a href="#">here</a>              |
| 3.B.4.g ii                 | 0.00562         | 0.00560         | -0.00002        | -0.41%       | <a href="#">here</a>              |
| 3.B.4.g iii                | 0.00339         | 0.00343         | 0.00004         | 1.23%        | <a href="#">here</a>              |
| 3.B.4.g iv                 | 0.0025          | 0.0028          | 0.0003          | 13.7%        | <a href="#">here</a>              |
| 3.B.4.h                    | 0.0038          | 0.0077          | 0.0038          | 100%         | <a href="#">here</a>              |
| 3.D.a.2.a                  | 44.59           | 45.94           | 1.35            | 3.04%        | <a href="#">here</a>              |
| 3.D.a.3                    | 8.50            | 8.84            | 0.34            | 4.01%        | <a href="#">here</a>              |
| <b>NFR 5 - Waste</b>       | <b>0.74</b>     | <b>0.74</b>     | <b>0.00</b>     | <b>0.00%</b> |                                   |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |                 |              |                                   |

The changes within the **National Total** reported for **2022 (-15.2 kt or -1.61 %)** are dominated by revisions in NFRs **1.A.1.a** (-13 kt) and **1.A.2.g viii** (-4.71 kt) together with less significant revisions **throughout NFRs 1, 2 and 3**.

Here, the most significant percental change occurs for **NFR 3.B.4.e with plus 468 %**.

Table 2: Changes of emission estimates 2020

|                       | Submission 2024 | Submission 2025 | Difference    |               | Reasoning                         |
|-----------------------|-----------------|-----------------|---------------|---------------|-----------------------------------|
| NFR Sector            | [kt]            |                 | relative      |               | see description and reasoning in: |
| <b>NATIONAL TOTAL</b> | <b>941.99</b>   | <b>926.84</b>   | <b>-15.15</b> | <b>-1.61%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b> | <b>785.20</b>   | <b>767.94</b>   | <b>-17.26</b> | <b>-2.20%</b> | <b>sub-category chapters</b>      |
| 1.A.1.a               | 213.35          | 200.36          | -13.00        | -6.09%        | <a href="#">here</a>              |
| 1.A.1.b               | 15.62           | 15.21           | -0.41         | -2.65%        | <a href="#">here</a>              |
| 1.A.1.c               | 12.31           | 12.09           | -0.21         | -1.73%        | <a href="#">here</a>              |
| 1.A.2.a               | 3.57            | 3.59            | 0.03          | 0.73%         | <a href="#">here</a>              |
| 1.A.2.b               | 0.87            | 0.90            | 0.04          | 4.20%         | <a href="#">here</a>              |
| 1.A.2.e               | 0.21            | 0.19            | -0.01         | -6.98%        | <a href="#">here</a>              |
| 1.A.2.g vii           | 6.56            | 6.11            | -0.45         | -6.83%        | <a href="#">here</a>              |
| 1.A.2.g viii          | 68.53           | 63.82           | -4.71         | -6.87%        | <a href="#">here</a>              |
| 1.A.3.a i(i)          | 8.30            | 8.31            | 0.01          | 0.14%         | <a href="#">here</a>              |
| 1.A.3.a ii(i)         | 1.2796          | 1.2802          | 0.0006        | 0.04%         | <a href="#">here</a>              |
| 1.A.3.b i             | 178.53          | 178.82          | 0.29          | 0.16%         | <a href="#">here</a>              |
| 1.A.3.b ii            | 45.78           | 45.03           | -0.75         | -1.64%        | <a href="#">here</a>              |

|                            | Submission 2024 | Submission 2025 | Difference    |               | Reasoning                         |
|----------------------------|-----------------|-----------------|---------------|---------------|-----------------------------------|
| NFR Sector                 | [kt]            |                 | absolute      | relative      | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>941.99</b>   | <b>926.84</b>   | <b>-15.15</b> | <b>-1.61%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>785.20</b>   | <b>767.94</b>   | <b>-17.26</b> | <b>-2.20%</b> | <b>sub-category chapters</b>      |
| 1.A.3.b iii                | 70.08           | 70.78           | 0.70          | 1.00%         | <a href="#">here</a>              |
| 1.A.3.b iv                 | 1.40            | 1.37            | -0.03         | -2.41%        | <a href="#">here</a>              |
| 1.A.3.c                    | 7.84            | 7.85            | 0.01          | 0.07%         | <a href="#">here</a>              |
| 1.A.3.d ii                 | 20.47           | 19.25           | -1.22         | -5.96%        | <a href="#">here</a>              |
| 1.A.4.a i                  | 17.77           | 17.69           | -0.07         | -0.42%        | <a href="#">here</a>              |
| 1.A.4.a ii                 | 6.38            | 6.08            | -0.29         | -4.58%        | <a href="#">here</a>              |
| 1.A.4.b i                  | 59.79           | 61.02           | 1.23          | 2.06%         | <a href="#">here</a>              |
| 1.A.4.b ii                 | 0.39            | 0.41            | 0.02          | 5.04%         | <a href="#">here</a>              |
| 1.A.4.c i                  | 7.58            | 7.90            | 0.32          | 4.21%         | <a href="#">here</a>              |
| 1.A.4.c ii                 | 32.56           | 33.58           | 1.02          | 3.14%         | <a href="#">here</a>              |
| 1.A.4.c iii                | 0.259           | 0.244           | -0.015        | -5.63%        | <a href="#">here</a>              |
| 1.A.5.a                    | 0.259           | 0.259           | 0.00          | 0.00%         | <a href="#">here</a>              |
| 1.A.5.b                    | 2.61            | 2.92            | 0.31          | 11.88%        | <a href="#">here</a>              |
| 1.B.1.b                    | 0.28            | 0.23            | -0.05         | -18.66%       | <a href="#">here</a>              |
| <b>NFR 2 - IPPU</b>        | <b>54.44</b>    | <b>54.91</b>    | <b>0.47</b>   | <b>0.86%</b>  | <b>sub-category chapters</b>      |
| 2.A.2                      | 3.642           | 3.715           | 0.07          | 1.98%         | <a href="#">here</a>              |
| 2.A.3                      | 10.99           | 11.39           | 0.40          | 3.61%         | <a href="#">here</a>              |
| 2.B.3                      | 0.102           | 0.101           | -0.001        | -0.87%        | <a href="#">here</a>              |
| 2.G                        | 0.196           | 0.196           | 0.00          | 0.01%         | <a href="#">here</a>              |
| <b>NFR 3 - Agriculture</b> | <b>101.25</b>   | <b>102.90</b>   | <b>1.65</b>   | <b>1.63%</b>  | <b>sub-category chapters</b>      |
| 3.B.1.a                    | 0.485           | 0.544           | 0.06          | 12.07%        | <a href="#">here</a>              |
| 3.B.1.b                    | 0.495           | 0.561           | 0.07          | 13.34%        | <a href="#">here</a>              |
| 3.B.2                      | 0.01            | 0.02            | 0.01          | 100%          | <a href="#">here</a>              |
| 3.B.3                      | 0.195           | 0.224           | 0.03          | 14.68%        | <a href="#">here</a>              |
| 3.B.4.d                    | 0.00206         | 0.00406         | 0.00          | 96.4%         | <a href="#">here</a>              |
| 3.B.4.e                    | 0.0393          | 0.2238          | 0.18          | 468%          | <a href="#">here</a>              |
| 3.B.4.g i                  | 0.019           | 0.017           | -0.002        | -9.26%        | <a href="#">here</a>              |
| 3.B.4.g ii                 | 0.0133          | 0.0126          | -0.0007       | -5.42%        | <a href="#">here</a>              |
| 3.B.4.g iii                | 0.0094          | 0.0077          | -0.0017       | -18.40%       | <a href="#">here</a>              |
| 3.B.4.g iv                 | 0.002022        | 0.002057        | 0.000035      | 1.73%         | <a href="#">here</a>              |
| 3.B.4.h                    | 0.0006          | 0.0012          | 0.0006        | 98.7%         | <a href="#">here</a>              |
| 3.D.a.1                    | 45.46           | 44.29           | -1.18         | -2.59%        | <a href="#">here</a>              |
| 3.D.a.2.a                  | 35.22           | 36.65           | 1.43          | 4.06%         | <a href="#">here</a>              |
| 3.D.a.2.b                  | 0.474           | 0.476           | 0.002         | 0.33%         | <a href="#">here</a>              |
| 3.D.a.2.c                  | 13.92           | 14.67           | 0.75          | 5.35%         | <a href="#">here</a>              |
| 3.D.a.3                    | 4.78            | 5.11            | 0.33          | 7.01%         | <a href="#">here</a>              |
| 3.I                        | 0.12            | 0.09            | -0.03         | -27.61%       | <a href="#">here</a>              |
| <b>NFR 5 - Waste</b>       | <b>1.10</b>     | <b>1.10</b>     | <b>0.00</b>   | <b>0.00%</b>  |                                   |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |               |               |                                   |