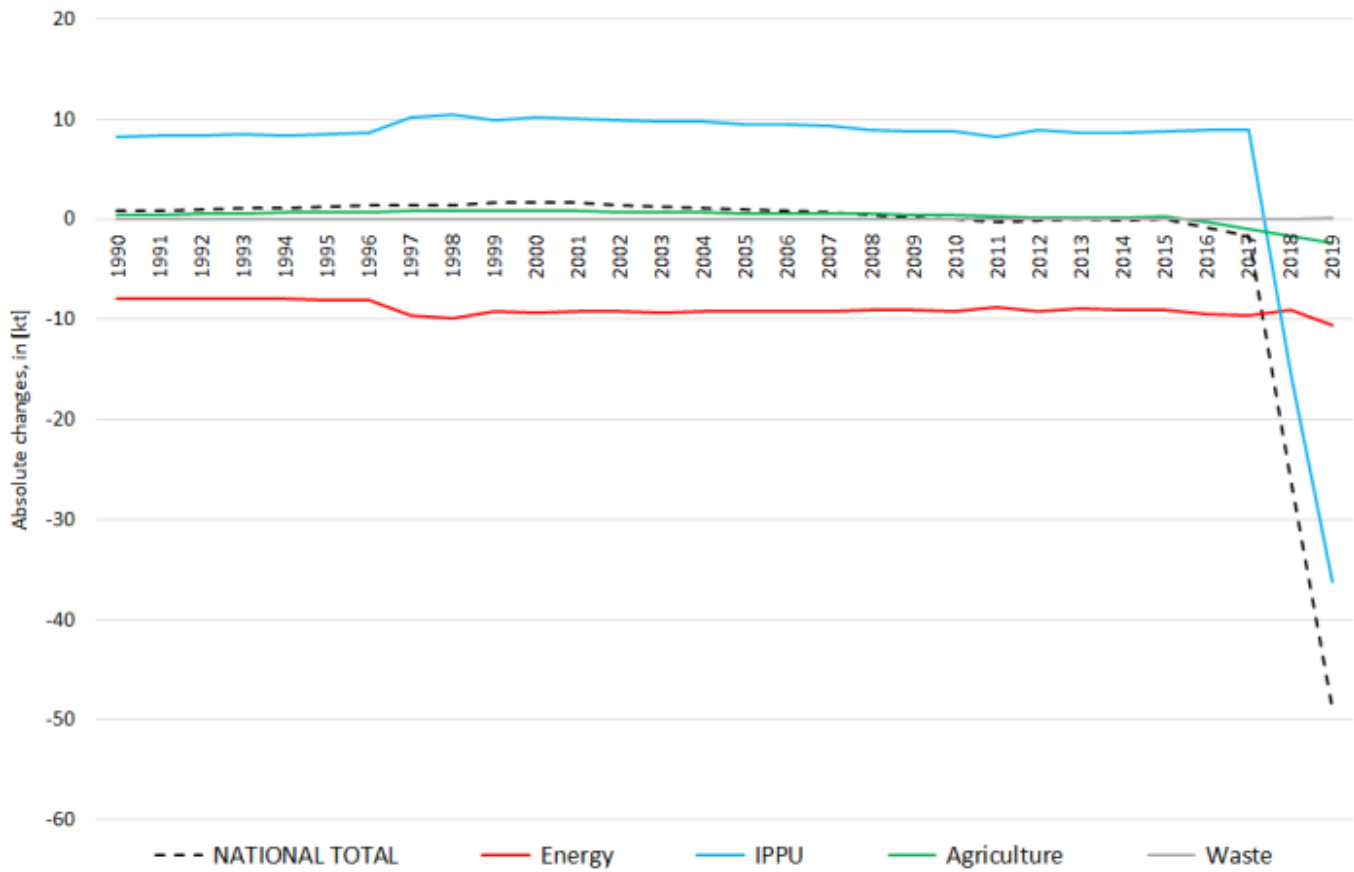
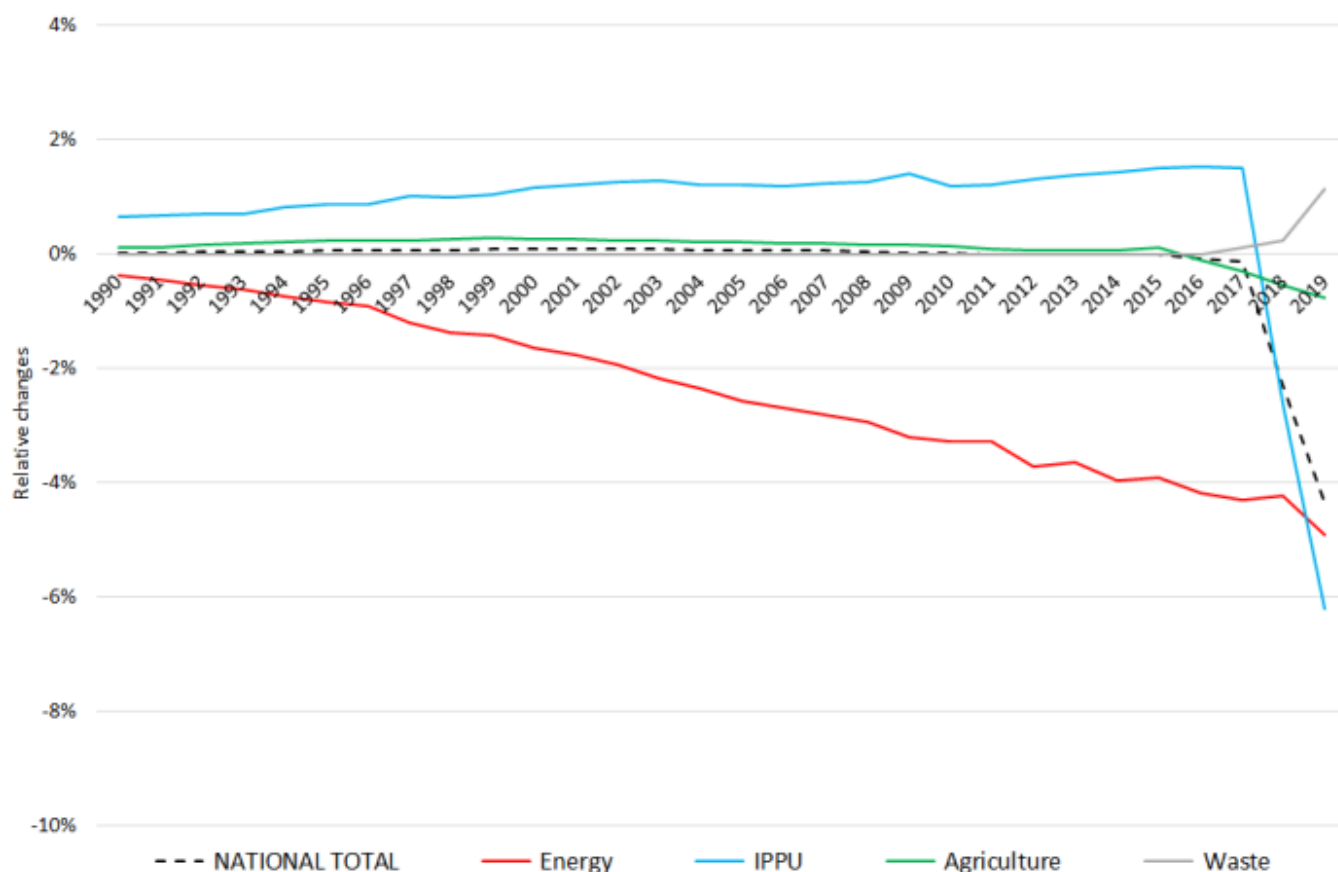


# Recalculations - Non-Methane Volatile Organic Compounds

Revision of NMVOC emissions over time





The insignificant changes within the **National Total reported for 1990 (+0.73 kt | +0.02 %)** are dominated by a re-allocation of **8.09 kt** of NMVOCs from NFR sub-categorie **1.B.2.a iv** to **2.B.10.b**, with the strongest percental change occurring for **1.A.4.c iii** with minus 55 %.

Table 1: Changes in emission estimates for 1990

|                            | Submission 2021 | Submission 2022 | Difference   |               | Reasoning                         |
|----------------------------|-----------------|-----------------|--------------|---------------|-----------------------------------|
| NFR Sector                 | [kt]            |                 | absolute     | relative      | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>3.890,85</b> | <b>3.891,58</b> | <b>0,73</b>  | <b>0,02%</b>  | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>2.170,57</b> | <b>2.162,57</b> | <b>-8,00</b> | <b>-0,37%</b> | <b>sub-category chapters</b>      |
| 1.A.3.a i(i)               | 0,80            | 0,80            | 0,00         | -0,49%        | <a href="#">here</a>              |
| 1.A.3.a ii(i)              | 0,50            | 0,42            | -0,08        | -15,49%       | <a href="#">here</a>              |
| 1.A.3.b i                  | 1.119,06        | 1.119,06        | 0,00         | 0,00%         | <a href="#">here</a>              |
| 1.A.3.b ii                 | 39,73           | 39,73           | 0,00         | 0,00%         | <a href="#">here</a>              |
| 1.A.3.b iii                | 60,10           | 60,12           | 0,02         | 0,03%         | <a href="#">here</a>              |
| 1.A.3.c                    | 4,19            | 4,22            | 0,03         | 0,718%        | <a href="#">here</a>              |
| 1.A.3.d ii                 | 3,20            | 3,27            | 0,07         | 2,106%        | <a href="#">here</a>              |
| 1.A.4.b ii                 | 12,48           | 12,52           | 0,04         | 0,32%         | <a href="#">here</a>              |
| 1.A.4.c iii                | 0,04            | 0,02            | -0,02        | -54,62%       | <a href="#">here</a>              |
| 1.A.5.b                    | 21,32           | 21,30           | -0,02        | -0,10%        | <a href="#">here</a>              |
| 1.B.2.a iv                 | 81,24           | 73,15           | -8,09        | -9,96%        |                                   |
| 1.B.2.a v                  | 87,73           | 87,79           | 0,05         | 0,06%         |                                   |
| <b>NFR 2 - IPPU</b>        | <b>1.283,34</b> | <b>1.291,63</b> | <b>8,30</b>  | <b>0,65%</b>  | <b>sub-category chapters</b>      |
| 2.B.10.b                   | NA              | 8,09            | 8,09         |               | <a href="#">here</a>              |
| 2.D.3.g                    | 70,00           | 69,59           | -0,41        | -0,58%        | <a href="#">here</a>              |
| 2.D.3.i                    | 241,57          | 242,18          | 0,61         | 0,25%         |                                   |
| <b>NFR 3 - Agriculture</b> | <b>398,49</b>   | <b>398,93</b>   | <b>0,44</b>  | <b>0,11%</b>  | <b>sub-category chapters</b>      |
| 3.B.1.b                    | 153,72          | 154,16          | 0,44         | 0,29%         | <a href="#">here</a>              |
| <b>NFR 5 - Waste</b>       | <b>38,45</b>    | <b>38,45</b>    | <b>0,00</b>  | <b>0,00%</b>  |                                   |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |              |               |                                   |

Changes within the **National Total reported for 2019 (-49kt | -4.37%)** result from several more or less significant

revisions in **NFR1, 2 3 and 4.**

The strongest percental change occurs for **NFR 1.A.4.c iii with minus 43 %.**

Table 2: Changes in emission estimates for 2019

|                            | Submission 2021 | Submission 2022 | Difference    |               | Reasoning                         |
|----------------------------|-----------------|-----------------|---------------|---------------|-----------------------------------|
| NFR Sector                 | [kt]            |                 | relative      |               | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>1.121,23</b> | <b>1.072,23</b> | <b>-49,00</b> | <b>-4,37%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>214,71</b>   | <b>204,04</b>   | <b>-10,67</b> | <b>-4,97%</b> | <b>sub-category chapters</b>      |
| 1.A.1.a                    | 7,08            | 7,17            | 0,10          | 1,35%         | <a href="#">here</a>              |
| 1.A.1.c                    | 0,38            | 0,39            | 0,01          | 2,56%         | <a href="#">here</a>              |
| 1.A.2.a                    | 0,244           | 0,259           | 0,02          | 6,33%         | <a href="#">here</a>              |
| 1.A.2.b                    | 0,082           | 0,079           | -0,003        | -3,80%        | <a href="#">here</a>              |
| 1.A.2.e                    | 0,024           | 0,023           | -0,001        | -2,51%        | <a href="#">here</a>              |
| 1.A.2.g vii                | 3,42            | 3,38            | -0,04         | -1,12%        | <a href="#">here</a>              |
| 1.A.2.g viii               | 5,58            | 5,56            | -0,02         | -0,35%        | <a href="#">here</a>              |
| 1.A.3.a i(i)               | 0,69            | 0,65            | -0,04         | -5,96%        | <a href="#">here</a>              |
| 1.A.3.a ii(i)              | 0,52            | 0,37            | -0,15         | -28,40%       | <a href="#">here</a>              |
| 1.A.3.b i                  | 47,41           | 46,02           | -1,40         | -2,94%        | <a href="#">here</a>              |
| 1.A.3.b ii                 | 1,47            | 1,45            | -0,02         | -1,09%        | <a href="#">here</a>              |
| 1.A.3.b iii                | 2,71            | 2,73            | 0,01          | 0,46%         | <a href="#">here</a>              |
| 1.A.3.b iv                 | 15,02           | 14,85           | -0,16         | -1,10%        | <a href="#">here</a>              |
| 1.A.3.b v                  | 22,62           | 22,25           | -0,38         | -1,66%        | <a href="#">here</a>              |
| 1.A.3.c                    | 0,36            | 0,39            | 0,04          | 9,95%         | <a href="#">here</a>              |
| 1.A.3.d ii                 | 1,13            | 1,08            | -0,05         | -4,12%        | <a href="#">here</a>              |
| 1.A.4.a i                  | 3,71            | 3,79            | 0,08          | 2,08%         | <a href="#">here</a>              |
| 1.A.4.a ii                 | 0,880           | 0,876           | -0,004        | -0,48%        | <a href="#">here</a>              |
| 1.A.4.b i                  | 34,77           | 34,95           | 0,19          | 0,54%         | <a href="#">here</a>              |
| 1.A.4.b ii                 | 10,759          | 10,166          | -0,59         | -5,51%        | <a href="#">here</a>              |
| 1.A.4.c i                  | 0,80            | 0,82            | 0,02          | 2,39%         | <a href="#">here</a>              |
| 1.A.4.c ii                 | 9,27            | 9,18            | -0,09         | -0,97%        | <a href="#">here</a>              |
| 1.A.4.c iii                | 0,026           | 0,015           | -0,011        | -42,97%       | <a href="#">here</a>              |
| 1.A.5.a                    | 0,05            | 0,07            | 0,02          | 33,84%        | <a href="#">here</a>              |
| 1.A.5.b                    | 1,35            | 1,34            | -0,02         | -1,15%        | <a href="#">here</a>              |
| 1.B.1.b                    | 3,26            | 3,36            | 0,10          | 3,05%         | <a href="#">here</a>              |
| 1.B.2.a i                  | 5,820           | 5,821           | 0,001         | 0,01%         |                                   |
| 1.B.2.a iv                 | 12,23           | 3,91            | -8,32         | -68,02%       |                                   |
| 1.B.2.a v                  | 16,82           | 16,87           | 0,06          | 0,34%         |                                   |
| 1.B.2.b                    | 4,95            | 4,93            | -0,02         | -0,34%        |                                   |
| 1.B.2.c                    | 0,3591          | 0,3592          | 0,0001        | 0,01%         |                                   |
| <b>NFR 2 - IPPU</b>        | <b>583,38</b>   | <b>547,17</b>   | <b>-36,21</b> | <b>-6,21%</b> | <b>sub-category chapters</b>      |
| 2.A.3                      | 0,92            | 0,62            | -0,30         | -33,01%       | <a href="#">here</a>              |
| 2.A.6                      | 0,096           | 0,096           | 0,00          | 0,04%         | <a href="#">here</a>              |
| 2.D.3.a                    | 91,18           | 78,43           | -12,75        | -13,99%       | <a href="#">here</a>              |
| 2.D.3.d                    | 199,98          | 173,72          | -26,25        | -13,13%       | <a href="#">here</a>              |
| 2.D.3.e                    | 40,56           | 39,47           | -1,08         | -2,67%        | <a href="#">here</a>              |
| 2.D.3.g                    | 51,57           | 49,35           | -2,22         | -4,31%        | <a href="#">here</a>              |
| 2.D.3.h                    | 63,59           | 53,15           | -10,45        | -16,43%       | <a href="#">here</a>              |
| 2.D.3.i                    | 97,93           | 106,46          | 8,53          | 8,71%         | <a href="#">here</a>              |
| <b>NFR 3 - Agriculture</b> | <b>304,39</b>   | <b>302,05</b>   | <b>-2,33</b>  | <b>-0,77%</b> | <b>sub-category chapters</b>      |
| 3.B.1.a                    | 160,84          | 161,00          | 0,16          | 0,10%         | <a href="#">here</a>              |
| 3.B.1.b                    | 90,15           | 87,97           | -2,18         | -2,42%        | <a href="#">here</a>              |
| 3.B.4.d                    | 0,080           | 0,082           | 0,002         | 2,35%         | <a href="#">here</a>              |
| 3.B.4.e                    | 2,81            | 3,00            | 0,19          | 6,68%         | <a href="#">here</a>              |
| 3.B.4.g i                  | 8,89            | 8,88            | -0,01         | -0,11%        | <a href="#">here</a>              |
| 3.B.4.g ii                 | 10,13           | 10,02           | -0,11         | -1,06%        | <a href="#">here</a>              |

|                       | Submission 2021 | Submission 2022 | Difference    |               | Reasoning                         |
|-----------------------|-----------------|-----------------|---------------|---------------|-----------------------------------|
| NFR Sector            | [kt]            |                 |               | relative      | see description and reasoning in: |
| <b>NATIONAL TOTAL</b> | <b>1.121,23</b> | <b>1.072,23</b> | <b>-49,00</b> | <b>-4,37%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b> | <b>214,71</b>   | <b>204,04</b>   | <b>-10,67</b> | <b>-4,97%</b> | <b>sub-category chapters</b>      |
| 3.B.4.g iii           | 6,04            | 5,76            | -0,29         | -4,74%        | <a href="#">here</a>              |
| 3.B.4.g iv            | 2,65            | 2,55            | -0,10         | -3,85%        | <a href="#">here</a>              |
| <b>NFR 5 - Waste</b>  | <b>18,75</b>    | <b>18,97</b>    | <b>0,21</b>   | <b>1,13%</b>  | <b>sub-category chapters</b>      |
| 5.A                   | 3,788           | 3,786           | -0,001        | -0,04%        | <a href="#">here</a>              |
| 5.C.2                 | 14,80           | 15,02           | 0,21          | 1,44%         | <a href="#">here</a>              |
| <b>NFR 6 - Other</b>  | <b>NA</b>       |                 |               |               |                                   |