

# Recalculations - Total Suspended Particles (TSP)

## Revision of TSP emissions over time:

The small changes within the **National Total** reported for **1990 (+5.44 kt or +0.27 %)** are dominated by a revision of emission estimates for NFRs **1.A.3.b iii (-1.45 kt)** and **3.B.c (+6.01 kt)** together with less significant revisions in NFRs 1 and 3.

The strongest percental changes occurs for NFR **3.B.c with plus 35%**.

Table 1: Changes in emission estimates for 1990

| NFR Sector                 | Submission 2022 | Submission 2023 | Difference   |               | Reasoning<br>see description and reasoning in: |
|----------------------------|-----------------|-----------------|--------------|---------------|--|
|                            | [kt]            |                 | absolute     | relative      |  |
| <b>NATIONAL TOTAL</b>      | <b>2.042,44</b> | <b>2.047,88</b> | <b>5,44</b>  | <b>0,27%</b>  | <b>sub-category chapters</b>                   |
| <b>NFR 1 - Energy</b>      | <b>1.401,92</b> | <b>1.401,35</b> | <b>-0,56</b> | <b>-0,04%</b> | <b>sub-category chapters</b>                   |
| 1.A.2.g vii                | 7,18            | 7,19            | 0,01         | 0,15%         | <a href="#">here</a>                           |
| 1.A.3.a i(i)               | 0,05            | 0,05            | 0,00         | -6,41%        | <a href="#">here</a>                           |
| 1.A.3.a ii(i)              | 0,04            | 0,04            | 0,00         | -4,45%        | <a href="#">here</a>                           |
| 1.A.3.b i                  | 17,17           | 17,87           | 0,70         | 4,09%         | <a href="#">here</a>                           |
| 1.A.3.b ii                 | 2,71            | 2,83            | 0,12         | 4,32%         | <a href="#">here</a>                           |
| 1.A.3.b iii                | 29,56           | 28,11           | -1,45        | -4,90%        | <a href="#">here</a>                           |
| 1.A.3.b iv                 | 2,23            | 2,32            | 0,09         | 3,81%         | <a href="#">here</a>                           |
| 1.A.4.a ii                 | 1,53            | 1,53            | 0,00         | -0,17%        | <a href="#">here</a>                           |
| 1.A.4.b ii                 | 0,29            | 0,29            | 0,00         | -0,11%        | <a href="#">here</a>                           |
| 1.A.4.c ii                 | 12,96           | 12,93           | -0,02        | -0,16%        | <a href="#">here</a>                           |
| <b>NFR 2 - IPPU</b>        | <b>562,34</b>   | <b>562,34</b>   | <b>0,00</b>  | <b>0,00%</b>  |  |
| <b>NFR 3 - Agriculture</b> | <b>67,48</b>    | <b>73,48</b>    | <b>6,00</b>  | <b>8,89%</b>  | <b>sub-category chapters</b>                   |
| 3.B.4.g i                  | 10,16           | 10,15           | -0,01        | -0,08%        | <a href="#">here</a>                           |
| 3.D.c                      | 17,44           | 23,45           | 6,01         | 34,46%        | <a href="#">here</a>                           |
| <b>NFR 5 - Waste</b>       | <b>10,70</b>    | <b>10,70</b>    | <b>0,00</b>  | <b>0,00%</b>  |  |
| <b>NFR 6 - Other</b>       |                 | <b>NA</b>       |              |               |  |

The strong changes within the **National Total** reported for **2019 (-20.6 kt or -5.43 %)** are dominated by revised emission estimates for **NFR 2.L (-19.04 kt)**. In addition, several more or less significant revisions occur in NFRs **1, 2, 3 and 5**.

The most significant percental change occurs for **NFR 2.A.3 with plus 127 %**.

Table 2: Changes in emission estimates for 2019

| NFR Sector            | Submission 2022 | Submission 2023 | Difference   |               | Reasoning<br>see description and reasoning in: |
|-----------------------|-----------------|-----------------|--------------|---------------|--|
|                       | [kt]            |                 | absolute     | relative      |  |
| <b>NATIONAL TOTAL</b> | <b>337,470</b>  | <b>335,708</b>  | <b>-1,76</b> | <b>-0,52%</b> | <b>sub-category chapters</b>                   |
| <b>NFR 1 - Energy</b> | <b>87,766</b>   | <b>85,415</b>   | <b>-2,35</b> | <b>-2,68%</b> | <b>sub-category chapters</b>                   |
| 1.A.1.a               | 4,11            | 4,07            | -0,03        | -0,80%        | <a href="#">here</a>                           |
| 1.A.1.b               | 0,514           | 0,541           | 0,027        | 5,35%         | <a href="#">here</a>                           |
| 1.A.1.c               | 0,45            | 0,44            | -0,01        | -2,85%        | <a href="#">here</a>                           |
| 1.A.2.a               | 0,070           | 0,069           | -0,002       | -2,58%        | <a href="#">here</a>                           |
| 1.A.2.g vii           | 0,826           | 0,840           | 0,014        | 1,69%         | <a href="#">here</a>                           |
| 1.A.2.g viii          | 2,45            | 2,69            | 0,23         | 9,59%         | <a href="#">here</a>                           |
| 1.A.3.a i(i)          | 0,033           | 0,031           | -0,002       | -6,61%        | <a href="#">here</a>                           |
| 1.A.3.a ii(i)         | 0,01            | 0,01            | 0,00         | -6,17%        | <a href="#">here</a>                           |
| 1.A.3.b i             | 2,20            | 2,11            | -0,09        | -4,19%        | <a href="#">here</a>                           |
| 1.A.3.b ii            | 1,083           | 1,086           | 0,003        | 0,32%         | <a href="#">here</a>                           |
| 1.A.3.b iii           | 1,52            | 0,89            | -0,62        | -41,08%       | <a href="#">here</a>                           |
| 1.A.3.b iv            | 1,00            | 1,03            | 0,03         | 2,96%         | <a href="#">here</a>                           |
| 1.A.3.b vi            | 16,85           | 16,78           | -0,07        | -0,43%        | <a href="#">here</a>                           |

|                            | Submission 2022 | Submission 2023 | Difference   |                                   | Reasoning                    |
|----------------------------|-----------------|-----------------|--------------|-----------------------------------|------------------------------|
| NFR Sector                 | [kt]            |                 | relative     | see description and reasoning in: |                              |
| <b>NATIONAL TOTAL</b>      | <b>337,470</b>  | <b>335,708</b>  | <b>-1,76</b> | <b>-0,52%</b>                     | <b>sub-category chapters</b> |
| <b>NFR 1 - Energy</b>      | <b>87,766</b>   | <b>85,415</b>   | <b>-2,35</b> | <b>-2,68%</b>                     | <b>sub-category chapters</b> |
| 1.A.3.b vii                | 14,23           | 14,18           | -0,05        | -0,35%                            | <a href="#">here</a>         |
| 1.A.3.c                    | 8,09            | 8,67            | 0,58         | 7,13%                             | <a href="#">here</a>         |
| 1.A.3.d ii                 | 0,7986          | 0,7990          | 0,0004       | 0,05%                             | <a href="#">here</a>         |
| 1.A.4.a i                  | 2,24            | 2,33            | 0,10         | 4,27%                             | <a href="#">here</a>         |
| 1.A.4.a ii                 | 0,192           | 0,193           | 0,002        | 0,88%                             | <a href="#">here</a>         |
| 1.A.4.b i                  | 17,27           | 17,03           | -0,24        | -1,41%                            | <a href="#">here</a>         |
| 1.A.4.b ii                 | 0,16            | 0,13            | -0,03        | -21,14%                           | <a href="#">here</a>         |
| 1.A.4.c i                  | 0,481           | 0,480           | -0,001       | -0,13%                            | <a href="#">here</a>         |
| 1.A.4.c ii                 | 3,04            | 3,11            | 0,07         | 2,40%                             | <a href="#">here</a>         |
| 1.A.5.a                    | 0,038           | 0,041           | 0,002        | 6,40%                             | <a href="#">here</a>         |
| 1.A.5.b                    | 0,06            | 0,06            | -0,01        | -8,55%                            | <a href="#">here</a>         |
| 1.B.1.a                    | 5,46            | 3,22            | -2,24        | -41,01%                           | <a href="#">here</a>         |
| 1.B.1.b                    | 4,529           | 4,530           | 0,001        | 0,02%                             | <a href="#">here</a>         |
| <b>NFR 2 - IPPU</b>        | <b>183,76</b>   | <b>182,20</b>   | <b>-1,56</b> | <b>-0,85%</b>                     | <b>sub-category chapters</b> |
| 2.A.1                      | 1,57            | 0,78            | -0,79        | -50,35%                           | <a href="#">here</a>         |
| 2.A.3                      | 0,45            | 0,47            | 0,02         | 3,59%                             | <a href="#">here</a>         |
| 2.A.5.a                    | 41,62           | 41,62           | 0,00         | 0,00%                             | <a href="#">here</a>         |
| 2.A.5.b                    | 36,30           | 35,31           | -0,99        | -2,72%                            | <a href="#">here</a>         |
| 2.B.7                      | 0,10            | 0,14            | 0,04         | 35,20%                            | <a href="#">here</a>         |
| 2.C.2                      | 0,00538         | 0,00542         | 0,00004      | 0,80%                             | <a href="#">here</a>         |
| 2.G                        | 2,90            | 2,90            | 0,00         | 0,01%                             | <a href="#">here</a>         |
| 2.H.1                      | 0,02            | 0,18            | 0,16         | 710%                              | <a href="#">here</a>         |
| 2.H.2                      | 0,93            | 0,93            | 0,01         | 0,73%                             | <a href="#">here</a>         |
| 2.I                        | 1,33            | 1,33            | 0,00         | 0,00%                             | <a href="#">here</a>         |
| <b>NFR 3 - Agriculture</b> | <b>60,26</b>    | <b>62,41</b>    | <b>2,15</b>  | <b>3,57%</b>                      | <b>sub-category chapters</b> |
| 3.B.3                      | 16,99           | 15,66           | -1,33        | -7,84%                            | <a href="#">here</a>         |
| 3.B.4.g i                  | 10,29           | 10,01           | -0,28        | -2,75%                            | <a href="#">here</a>         |
| 3.D.c                      | 17,27           | 21,04           | 3,77         | 21,81%                            | <a href="#">here</a>         |
| <b>NFR 5 - Waste</b>       | <b>5,68</b>     | <b>5,68</b>     | <b>0,00</b>  | <b>-0,02%</b>                     | <b>sub-category chapters</b> |
| 5.A                        | 0,020           | 0,019           | -0,001       | -5,35%                            | <a href="#">here</a>         |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |              |                                   |                              |