

# Polyaromatic Hydrocarbons - PAHs

The strong changes within the **National Total reported for 1990 (-198 kt | -53 %)** are dominated by changes in **NFRs 1.A.4.a i and 1.A.4.b i**.

However, the most significant relative change occurs for **NFR 1.A.5.a with plus 691,203 %**.

Table 1: Changes of emission estimates 1990

| NFR Sector                 | Submission 2020 | Submission 2021 | Difference     |                | Reasoning                         |
|----------------------------|-----------------|-----------------|----------------|----------------|-----------------------------------|
|                            | [kt]            |                 |                | relative       | see description and reasoning in: |
| <b>NATIONAL TOTAL</b>      | <b>374,98</b>   | <b>177,42</b>   | <b>-197,55</b> | <b>-52,68%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b>      | <b>337,52</b>   | <b>140,19</b>   | <b>-197,33</b> | <b>-58,47%</b> | <b>sub-category chapters</b>      |
| 1.A.2.g vii                | 0,138           | 0,140           | 0,002          | 1,60%          | <a href="#">here</a>              |
| 1.A.2.g viii               | 3,75            | 3,75            | 0,00           | 0,00%          | <a href="#">here</a>              |
| 1.A.3.a i(i)               | NE              | 0,00002         | 0,00002        |                | <a href="#">here</a>              |
| 1.A.3.a ii(i)              | 0,0015          | 0,0002          | -0,0012        | -84,90%        | <a href="#">here</a>              |
| 1.A.3.b i                  | 1,222           | 1,219           | -0,002         | -0,18%         | <a href="#">here</a>              |
| 1.A.3.b ii                 | 0,07            | 0,05            | -0,02          | -31,77%        | <a href="#">here</a>              |
| 1.A.3.b iii                | 0,80            | 0,84            | 0,03           | 4,14%          | <a href="#">here</a>              |
| 1.A.3.b iv                 | 0,018           | 0,017           | -0,001         | -6,18%         | <a href="#">here</a>              |
| 1.A.3.b vi                 | 0,0622          | 0,0620          | -0,0002        | -0,30%         | <a href="#">here</a>              |
| 1.A.4.a i                  | 50,50           | 9,26            | -41,23         | -81,66%        | <a href="#">here</a>              |
| 1.A.4.a ii                 | 0,0222          | 0,0224          | 0,0002         | 0,94%          | <a href="#">here</a>              |
| 1.A.4.b i                  | 222,63          | 73,94           | -148,69        | -66,79%        | <a href="#">here</a>              |
| 1.A.4.c i                  | 12,76           | 2,60            | -10,16         | -79,61%        | <a href="#">here</a>              |
| 1.A.4.c ii                 | 0,168           | 0,166           | -0,002         | -1,44%         | <a href="#">here</a>              |
| 1.A.5.a                    | 0,0004          | 2,7365          | 2,7361         | 691,203%       | <a href="#">here</a>              |
| <b>NFR 2 - IPPU</b>        | <b>36,05</b>    | <b>35,77</b>    | <b>-0,28</b>   | <b>-0,76%</b>  | <b>sub-category chapters</b>      |
| 2.G                        | 0,47            | 0,20            | -0,28          | -58,42%        | <a href="#">here</a>              |
| <b>NFR 3 - Agriculture</b> | <b>NA</b>       |                 |                |                |                                   |
| <b>NFR 5 - Waste</b>       | <b>1,46</b>     | <b>1,46</b>     | <b>0,00</b>    | <b>0,00%</b>   | <b>sub-category chapters</b>      |
| <b>NFR 6 - Other</b>       | <b>NA</b>       |                 |                |                |                                   |

The strong changes within the **National Total reported for 2018 (-99 kt | -56 %)** are dominated by changes in **NFRs 1.A.4.a i and 1.A.4.b i**.

However, the most significant relative change occurs for **NFR 1.A.5.a with minus 63 %**.

Table 2: Changes of emission estimates 2018

| NFR Sector            | Submission 2020 | Submission 2021 | Difference    |                | Reasoning                         |
|-----------------------|-----------------|-----------------|---------------|----------------|-----------------------------------|
|                       | [t]             |                 |               | relative       | see description and reasoning in: |
| <b>NATIONAL TOTAL</b> | <b>174,88</b>   | <b>75,71</b>    | <b>-99,18</b> | <b>-56,71%</b> | <b>sub-category chapters</b>      |
| <b>NFR 1 - Energy</b> | <b>164,19</b>   | <b>65,16</b>    | <b>-99,04</b> | <b>-60,32%</b> | <b>sub-category chapters</b>      |
| 1.A.1.a               | 0,68            | 0,76            | 0,08          | 12,06%         | <a href="#">here</a>              |
| 1.A.1.b               | 0,014           | 0,015           | 0,001         | 9,13%          | <a href="#">here</a>              |
| 1.A.1.c               | 0,101           | 0,175           | 0,07          | 72,74%         | <a href="#">here</a>              |
| 1.A.2.a               | 0,000344        | 0,000346        | 0,000002      | 0,59%          | <a href="#">here</a>              |
| 1.A.2.g vii           | 0,13            | 0,14            | 0,01          | 7,92%          | <a href="#">here</a>              |
| 1.A.2.g viii          | 0,81            | 0,74            | -0,07         | -8,05%         | <a href="#">here</a>              |
| 1.A.3.a i(i)          | NE              | 0,00001         | 0,00001       |                | <a href="#">here</a>              |
| 1.A.3.a ii(i)         | 0,00023         | 0,00015         | -0,00009      | -36,34%        | <a href="#">here</a>              |
| 1.A.3.b i             | 1,58            | 1,62            | 0,04          | 2,37%          | <a href="#">here</a>              |
| 1.A.3.b ii            | 0,206           | 0,209           | 0,003         | 1,22%          | <a href="#">here</a>              |
| 1.A.3.b iii           | 1,21            | 1,17            | -0,04         | -3,34%         | <a href="#">here</a>              |
| 1.A.3.b iv            | 0,0150          | 0,0148          | -0,0002       | -1,19%         | <a href="#">here</a>              |

|                            | Submission 2020 | Submission 2021 | Difference    |                 | Reasoning                                |
|----------------------------|-----------------|-----------------|---------------|-----------------|--|
| <b>NFR Sector</b>          | <b>[t]</b>      |                 |               | <b>relative</b> | <b>see description and reasoning in:</b> |
| <b>NATIONAL TOTAL</b>      | <b>174,88</b>   | <b>75,71</b>    | <b>-99,18</b> | <b>-56,71%</b>  | <b>sub-category chapters</b>             |
| <b>NFR 1 - Energy</b>      | <b>164,19</b>   | <b>65,16</b>    | <b>-99,04</b> | <b>-60,32%</b>  | <b>sub-category chapters</b>             |
| 1.A.3.b vi                 | 0,0912          | 0,0911          | -0,0001       | -0,16%          | <a href="#">here</a>                     |
| 1.A.3.c                    | 0,033           | 0,029           | -0,005        | -13,98%         | <a href="#">here</a>                     |
| 1.A.3.d ii                 | 0,067           | 0,068           | 0,002         | 2,79%           | <a href="#">here</a>                     |
| 1.A.4.a i                  | 21,24           | 6,29            | -14,95        | -70,38%         | <a href="#">here</a>                     |
| 1.A.4.a ii                 | 0,021           | 0,018           | -0,003        | -15,35%         | <a href="#">here</a>                     |
| 1.A.4.b i                  | 135,47          | 52,49           | -82,98        | -61,25%         | <a href="#">here</a>                     |
| 1.A.4.c i                  | 1,69            | 0,57            | -1,12         | -66,30%         | <a href="#">here</a>                     |
| 1.A.4.c ii                 | 0,168           | 0,163           | -0,005        | -2,94%          | <a href="#">here</a>                     |
| 1.A.4.c iii                | 0,0070          | 0,0072          | 0,0002        | 2,65%           | <a href="#">here</a>                     |
| 1.A.5.a                    | 0,13            | 0,05            | -0,08         | -62,89%         | <a href="#">here</a>                     |
| 1.A.5.b                    | 0,007301        | 0,007301        | 0,000001      | 0,01%           | <a href="#">here</a>                     |
| <b>NFR 2 - IPPU</b>        | <b>9,55</b>     | <b>9,41</b>     | <b>-0,14</b>  | <b>-1,43%</b>   | <b>sub-category chapters</b>             |
| 2.G                        | 0,27            | 0,14            | -0,14         | -50,27%         | <a href="#">here</a>                     |
| <b>NFR 3 - Agriculture</b> |                 | <b>NA</b>       |               |                 |  |
| <b>NFR 5 - Waste</b>       | <b>1,14</b>     | <b>1,14</b>     | <b>0,00</b>   | <b>0,00%</b>    |  |
| <b>NFR 6 - Other</b>       |                 | <b>NA</b>       |               |                 |  |