

pollutant-specific data:	NOx	NM VOC	SOx	NH3	PM2.5	PM10	TSP	BC	CO	Pb	Cd	Hg	As	Cr	Cu	Ni	Se	Zn	PCDD/F	B[a]P	B[b]F	B[k]F	I[x]P	PAH1-4	HCB	PCB

# Recalculations - Polyaromatic Hydrocarbons 1 to 4

The rather remarkable changes within the **National Total** reported for **1990 (+1.94 t or +1.68 %)** result almost entirely from newly implemented emission estimates for B[b]F, B[k]F and I[x]P from **NFR sub-category 2.C.3**, increasing the PAH emissions from this specific source by **more than 200 %**.

Table 1: Changes of emission estimates 1990

<b>NATIONAL TOTAL</b>	<b>115.67</b>	<b>117.61</b>	<b>1.94</b>	<b>1.68%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>102.40</b>	<b>102.50</b>	<b>0.09</b>	<b>0.09%</b>	<b>sub-category chapters</b>
1.A.2.g vii	0.097716	0.097723	0.000007	0.01%	<a href="#">here</a>
1.A.3.b i	1.24	1.56	0.32	25.62%	<a href="#">here</a>
1.A.3.b ii	0.06	0.10	0.04	62.72%	<a href="#">here</a>
1.A.3.b iii	0.80	0.57	-0.23	-28.93%	<a href="#">here</a>
1.A.3.b iv	0.018	0.016	-0.002	-9.08%	<a href="#">here</a>
1.A.3.b vi	0.06	0.04	-0.02	-28.25%	<a href="#">here</a>
1.A.3.c	0.29	0.28	-0.01	-4.08%	<a href="#">here</a>
1.A.4.a ii	0.01910	0.01909	-0.00001	-0.03%	<a href="#">here</a>
1.A.4.c ii	0.211353	0.211351	-0.000002	-0.001%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>11.81</b>	<b>13.65</b>	<b>1.85</b>	<b>15.65%</b>	<b>sub-category chapters</b>
2.C.3	0.90	2.75	1.85	206%	<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>NFR 6 - Other</b>	<b>NA</b>				

	Submission 2025	Submission 2026	Difference		Reasoning
<b>NFR Sector</b>	<b>[t]</b>			<b>relative</b>	<b>see description and reasoning in:</b>
<b>NATIONAL TOTAL</b>	<b>23.03</b>	<b>23.22</b>	<b>0.19</b>	<b>0.83%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>22.92</b>	<b>23.00</b>	<b>0.08</b>	<b>0.34%</b>	<b>sub-category chapters</b>
1.A.2.g vii	0.0064068	0.0064072	0.0000005	0.01%	<a href="#">here</a>
1.A.3.b i	0.39	0.50	0.11	28.12%	<a href="#">here</a>
1.A.3.b ii	0.018	0.025	0.007	40.18%	<a href="#">here</a>
1.A.3.b iii	0.08	0.06	-0.02	-28.84%	<a href="#">here</a>
1.A.3.b iv	0.0052	0.0050	-0.0002	-3.59%	<a href="#">here</a>
1.A.3.c	0.007	0.005	-0.002	-31.01%	<a href="#">here</a>
1.A.4.a ii	0.0012434	0.0012430	-0.0000003	-0.03%	<a href="#">here</a>
1.A.4.c ii	0.0138588	0.0138586	-0.0000001	-0.001%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>0.07</b>	<b>0.18</b>	<b>0.11</b>	<b>158%</b>	<b>sub-category chapters</b>
2.C.3	NE	0.11	0.11		<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>0.04</b>	<b>0.04</b>	<b>0.00</b>	<b>0.00%</b>	
<b>NFR 6 - Other</b>	<b>NA</b>				

The significant changes within the **National Total** reported for **2022 (+1.28 t or +4.92 %)** are dominated by revisions in NFR sub-categories **1.A.4.b i with +1.39 t** and **1.A.4.a i with -0.11 t** together with a variety of small revisions throughout NFR 1.

However, the most significant percental change occurs in NFR **1.A.4.a ii with minus 16 %**.

Table 2: Changes of emission estimates 2023