

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 %)** are dominated by 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 %**. Furthermore, a variety of often opposing **revisions** occurs for sub-categories **throughout NFR 1**.

Table 1: Changes of emission estimates 1990

NFR Sector	Submission 2025	Submission 2026	Difference		Reasoning
	[t]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>115.67</b>	<b>117.61</b>	<b>1.94</b>	<b>1.68%</b>	<b>see description and reasoning in: 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>				

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

NFR Sector	Submission 2025	Submission 2026	Difference		Reasoning
	[t]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>67.13</b>	<b>66.60</b>	<b>-0.53</b>	<b>-0.79%</b>	<b>see description and reasoning in: sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>63.04</b>	<b>62.51</b>	<b>-0.53</b>	<b>-0.85%</b>	<b>sub-category chapters</b>
1.A.1.a	0.03745	0.03790	0.00044	1.18%	<a href="#">here</a>
1.A.1.b	0.00290	0.00300	0.00010	3.56%	<a href="#">here</a>
1.A.1.c	0.000683	0.000686	0.000003	0.44%	<a href="#">here</a>
1.A.2.a	0.000325	0.000324	-0.000001	-0.27%	
1.A.2.g vii	0.08	0.10	0.02	27.87%	<a href="#">here</a>
1.A.2.g viii	0.51	0.47	-0.04	-7.23%	<a href="#">here</a>
1.A.3.a i(i)	0.00000026	0.00000026	0.00000001	2.34%	<a href="#">here</a>
1.A.3.a ii(i)	0.0000130	0.0000133	0.0000003	2.34%	<a href="#">here</a>
1.A.3.b i	1.453	2.074	0.62	42.70%	<a href="#">here</a>
1.A.3.b ii	0.230	0.117	-0.11	-49.25%	<a href="#">here</a>
1.A.3.b iii	1.00	0.88	-0.12	-11.59%	<a href="#">here</a>
1.A.3.b iv	0.013	0.012	-0.001	-6.38%	<a href="#">here</a>

	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>67.13</b>	<b>66.60</b>	<b>-0.53</b>	<b>-0.79%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>63.04</b>	<b>62.51</b>	<b>-0.53</b>	<b>-0.85%</b>	<b>sub-category chapters</b>
1.A.3.b vi	0.09	0.06	-0.03	-34.04%	<a href="#">here</a>
1.A.3.c	0.031	0.028	-0.003	-10.72%	<a href="#">here</a>
1.A.3.d ii	0.051	0.050	-0.001	-2.49%	<a href="#">here</a>
1.A.4.a i	9.17	8.49	-0.68	-7.41%	<a href="#">here</a>
1.A.4.a ii	0.013	0.017	0.005	38.37%	<a href="#">here</a>
1.A.4.b i	49.32	49.15	-0.17	-0.35%	<a href="#">here</a>
1.A.4.b ii	0.0075	0.0071	-0.0004	-4.82%	<a href="#">here</a>
1.A.4.c ii	0.24	0.21	-0.03	-12.70%	<a href="#">here</a>
1.A.5.a	0.074	0.081	0.007	9.39%	<a href="#">here</a>
1.A.5.b	0.0059	0.0058	-0.0001	-1.48%	<a href="#">here</a>
1.B.1.b	0.13268	0.13269	0.00001	0.01%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>2.999367</b>	<b>3.000071</b>	<b>0.000704</b>	<b>0.02%</b>	<b>sub-category chapters</b>
2.C.3	0.000334	0.001021	0.000687	206%	<a href="#">here</a>
2.G	0.1148164	0.1148338	0.0000173	0.02%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>1.09</b>	<b>1.09</b>	<b>0.00</b>	<b>0.00%</b>	
<b>NFR 6 - Other</b>	<b>NA</b>				