

# Recalculations - Sulphur Oxides

The negligibly small changes in the **National Total** reported for **1990 (-4.15 kt or -0.08 %)** result almost entirely from revised emission estimates in the sub-categories of NFR **1.A.3.b** together with less significant changes throughout NFR 1.

Here, the strongest change occurs for **2.C.1 with minus 25 kt** but resulting from a re-allocation of emissions to NFR 2.C.7.c.

The strongest percental change, however, occurs for **2.C.1 with minus 85 %**.

Table 1: Changes in emission estimates for 1990

NFR Sector	Submission 2023	Submission 2024	Difference		Reasoning
	[kt]		relative		see description and reasoning in:
<b>NATIONAL TOTAL</b>	<b>5,464.11</b>	<b>5,459.96</b>	<b>-4.15</b>	<b>-0.08%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>5,288.46</b>	<b>5,284.38</b>	<b>-4.08</b>	<b>-0.08%</b>	<b>sub-category chapters</b>
1.A.2.g vii	3.85	2.72	-1.13	-29.3%	<a href="#">here</a>
1.A.3.a i(i)	0.2435	0.2432	-0.0003	-0.13%	<a href="#">here</a>
1.A.3.a ii(i)	0.173	0.175	0.002	1.16%	<a href="#">here</a>
1.A.3.b i	35.68	34.20	-1.49	-4.17%	<a href="#">here</a>
1.A.3.b ii	3.16	2.98	-0.18	-5.82%	<a href="#">here</a>
1.A.3.b iii	37.21	34.77	-2.44	-6.56%	<a href="#">here</a>
1.A.3.c	8.24	8.27	0.03	0.35%	<a href="#">here</a>
1.A.3.d ii	10.870	10.873	0.003	0.03%	<a href="#">here</a>
1.A.4.a ii	0.63	0.55	-0.08	-12.7%	<a href="#">here</a>
1.A.4.c ii	4.48	5.69	1.21	26.9%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>175.54</b>	<b>175.54</b>	<b>0.00</b>	<b>0.00%</b>	
2.C.1	34.50	9.48	<u>-25.02</u>	-72.5%	<a href="#">here</a>
2.C.7.c	NE	25.02	<u>25.02</u>	re-allocated from 2.C.1	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>0.11</b>	<b>0.03</b>	<b>-0.07</b>	<b>-69.6%</b>	<b>sub-category chapters</b>
5.C.2	0.09	0.01	-0.07	-85.0%	<a href="#">here</a>
<b>NFR 6 - Other</b>	<b>NA</b>				

Changes in the **National Total** reported for **2021 (-4.11 kt or -1.62 %)** result mainly from a revision in **NFR sub-category 1.A.2.g viii (-4.45 kt)** together with less relevant changes throughout NFRs 1, 2 and 5.

The most significant percental change occurs for **NFR 5.C.2 with minus 85 %**.

Table 2: Changes in emission estimates for 2021

NFR Sector	Submission 2023	Submission 2024	Difference		Reasoning
	[kt]		relative		see description and reasoning in:
<b>NATIONAL TOTAL</b>	<b>254,47</b>	<b>250,36</b>	<b>-4,11</b>	<b>-1,62%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>188,07</b>	<b>183,19</b>	<b>-4,88</b>	<b>-2,59%</b>	<b>sub-category chapters</b>
1.A.1.a	96,19	95,21	-0,98	-1,02%	<a href="#">here</a>
1.A.1.b	31,20	31,19	-0,01	-0,04%	<a href="#">here</a>
1.A.1.c	6,09	6,43	0,35	5,68%	<a href="#">here</a>
1.A.2.a	4,54	4,43	-0,10	-2,28%	<a href="#">here</a>
1.A.2.b	0,288	0,333	0,045	15,5%	<a href="#">here</a>
1.A.2.e	0,61	0,68	0,07	11,3%	<a href="#">here</a>
1.A.2.g vii	0,019	0,013	-0,006	-31,6%	<a href="#">here</a>
1.A.2.g viii	28,02	23,57	<u>-4,45</u>	-15,9%	<a href="#">here</a>
1.A.3.a i(i)	0,297	0,296	-0,001	-0,22%	<a href="#">here</a>
1.A.3.a ii(i)	0,065	0,062	-0,004	-5,40%	<a href="#">here</a>

	Submission 2023	Submission 2024	Difference		Reasoning
NFR Sector	[kt]		absolute	relative	see description and reasoning in:
<b>NATIONAL TOTAL</b>	<b>254,47</b>	<b>250,36</b>	<b>-4,11</b>	<b>-1,62%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>188,07</b>	<b>183,19</b>	<b>-4,88</b>	<b>-2,59%</b>	<b>sub-category chapters</b>
1.A.3.b i	0,4575	0,4533	-0,0042	-0,93%	<a href="#">here</a>
1.A.3.b ii	0,067	0,066	-0,001	-2,08%	<a href="#">here</a>
1.A.3.b iii	0,221	0,223	0,001	0,54%	<a href="#">here</a>
1.A.3.b iv	0,0065	0,0065	0,0001	1,02%	<a href="#">here</a>
1.A.3.c	0,215413	0,215415	0,000002	0,001%	<a href="#">here</a>
1.A.3.d ii	0,338	0,338	0,001	0,20%	<a href="#">here</a>
1.A.4.a i	1,34	1,18	-0,16	-12,2%	<a href="#">here</a>
1.A.4.a ii	0,003922	0,004057	0,000135	3,45%	<a href="#">here</a>
1.A.4.b i	10,61	10,91	0,30	2,84%	<a href="#">here</a>
1.A.4.b ii	0,00119	0,00125	0,00005	4,60%	<a href="#">here</a>
1.A.4.c i	1,756	1,760	0,005	0,27%	<a href="#">here</a>
1.A.4.c ii	0,023	0,030	0,007	29,1%	<a href="#">here</a>
1.A.5.a	0,0152	0,0154	0,0002	1,17%	<a href="#">here</a>
1.B.1.b	0,743	0,817	0,074	9,97%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>66,29</b>	<b>67,08</b>	<b>0,79</b>	<b>1,19%</b>	<b>sub-category chapters</b>
2.A.3	8,15	7,85	-0,31	-3,76%	<a href="#">here</a>
2.B.6	0,83	0,78	-0,06	-6,66%	<a href="#">here</a>
2.B.10.a	10,04	11,19	1,15	11,5%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>		
<b>NFR 5 - Waste</b>	<b>0,112</b>	<b>0,089</b>	<b>-0,023</b>	<b>-20,4%</b>	<b>sub-category chapters</b>
5.C.2	0,027	0,004	-0,023	-85,0%	<a href="#">here</a>
<b>NFR 6 - Other</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>		