

# Recalculations - Chromium (Cr)

With negligibly small changes within NFRs 1 and 2 and re-allocations in sub-categories of 1.A.3.b, the **National Total reported for 1990 remains unaltered** compared to last year's submission.

However, the strongest percental change occurs in NFR **1.A.3.b ii with plus 26 %**.

Table 1: Changes in emission estimates for 1990

NFR Sector	Submission 2022	Submission 2023	Difference		Reasoning
	[t]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>165,69</b>	<b>165,69</b>	<b>0,00</b>	<b>0,00%</b>	see description and reasoning in: sub-category chapters
<b>NFR 1 - Energy</b>	<b>122,29</b>	<b>122,29</b>	<b>0,00</b>	<b>0,00%</b>	sub-category chapters
1.A.2.g vii	0,00972	0,00973	0,00002	0,17%	<a href="#">here</a>
1.A.3.b i	0,235	0,237	0,002	0,83%	<a href="#">here</a>
1.A.3.b ii	0,0092	0,0116	0,0024	26,06%	<a href="#">here</a>
1.A.3.b iii	0,091	0,086	-0,004	-4,87%	<a href="#">here</a>
1.A.3.b iv	0,0031	0,0032	0,0001	2,99%	<a href="#">here</a>
1.A.4.a ii	0,001553	0,001551	-0,000001	-0,09%	<a href="#">here</a>
1.A.4.b ii	0,014477	0,014480	0,000003	0,02%	<a href="#">here</a>
1.A.4.c ii	0,03879	0,03877	-0,00002	-0,04%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>43,38</b>	<b>43,38</b>	<b>0,00</b>	<b>0,00%</b>	
2.G	0,6745	0,6744	-0,0001	-0,01%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>0,03</b>	<b>0,03</b>	<b>0,00</b>	<b>0,00%</b>	
<b>NFR 6 - Other</b>	<b>NA</b>				

The changes in the **National Total** reported for **2020 (+1.34 t and +2 %)** are dominated by a revision in **NFR 1.A.3.c with plus 1.5 t** where annual mileage and, hence, abrasive emissions were revised for 2020.

The significant percental change occurring in NFR 1.A.3.b iii results from a data error that will be corrected with the next annual submission.

Table 2: Changes of emission estimates for 2020

NFR Sector	Submission 2022	Submission 2023	Difference		Reasoning
	[t]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>65,72</b>	<b>67,05</b>	<b>1,34</b>	<b>2,03%</b>	see description and reasoning in: sub-category chapters
<b>NFR 1 - Energy</b>	<b>48,23</b>	<b>49,57</b>	<b>1,34</b>	<b>2,78%</b>	sub-category chapters
1.A.1.a	3,30	3,27	-0,03	-0,79%	<a href="#">here</a>
1.A.1.b	1,24	1,21	-0,04	-2,88%	<a href="#">here</a>
1.A.1.c	0,049	0,045	-0,004	-7,97%	<a href="#">here</a>
1.A.2.g vii	0,0100	0,0102	0,0002	2,34%	<a href="#">here</a>
1.A.2.g viii	0,21	0,26	0,06	26,81%	<a href="#">here</a>
1.A.3.a i(i)	0,000000139	0,000000138	-0,000000001	-0,42%	<a href="#">here</a>
1.A.3.a ii(i)	0,000003584	0,000003585	0,000000001	0,03%	<a href="#">here</a>
1.A.3.b i	0,2049	0,2058	0,0008	0,41%	<a href="#">here</a>
1.A.3.b ii	0,0318	0,0325	0,0007	2,15%	<a href="#">here</a>
1.A.3.b iii	0,1251	0,0426	-0,0824	-65,91%	<a href="#">here</a>
1.A.3.b iv	0,00274	0,00277	0,00003	1,11%	<a href="#">here</a>
1.A.3.b vi	16,36	16,29	-0,07	-0,43%	<a href="#">here</a>
1.A.3.b vii	1,009	1,008	0,00	-0,05%	<a href="#">here</a>
1.A.3.c	20,90	22,39	1,50	7,16%	<a href="#">here</a>
1.A.3.d ii	0,028006	0,028004	-0,000002	-0,01%	<a href="#">here</a>
1.A.4.a i	1,87	1,91	0,04	2,14%	<a href="#">here</a>
1.A.4.a ii	0,001235	0,001246	0,000011	0,89%	<a href="#">here</a>
1.A.4.b i	2,78	2,74	-0,04	-1,43%	<a href="#">here</a>

	Submission 2022	Submission 2023	Difference		Reasoning
<b>NFR Sector</b>	<b>[t]</b>			<b>relative</b>	<b>see description and reasoning in:</b>
<b>NATIONAL TOTAL</b>	<b>65,72</b>	<b>67,05</b>	<b>1,34</b>	<b>2,03%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>48,23</b>	<b>49,57</b>	<b>1,34</b>	<b>2,78%</b>	<b>sub-category chapters</b>
1.A.4.b ii	0,009	0,007	-0,002	-21,39%	<a href="#">here</a>
1.A.4.c i	0,067870	0,067864	-0,000006	-0,01%	<a href="#">here</a>
1.A.4.c ii	0,032	0,037	0,005	16,46%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>17,4580</b>	<b>17,4556</b>	<b>-0,0024</b>	<b>-0,01%</b>	<b>sub-category chapters</b>
2.A.3	0,0948	0,0950	0,0002	0,26%	<a href="#">here</a>
2.G	0,8531	0,8505	-0,0027	-0,31%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>0,03</b>	<b>0,03</b>	<b>0,00</b>	<b>0,00%</b>	
<b>NFR 6 - Other</b>	<b>NA</b>				