

# Recalculations - Chromium (Cr)

The negligibly small changes within the **1990 National Total (-0.001 t or -0.001 %)** are dominated by a **revision in NFR 5.E (-0.002 t)** together with a variety of much less significant changes throughout NFR 1.

Here, the strongest percental change occurs in NFR **1.A.3.a i(i) with minus 64 %**.

Table 1: Changes in emission estimates for 1990

<a href="#">f&lt;image Cr_1990.png size="medium"</a>		Submission 2023		Submission 2024		Difference		Reasoning
NFR Sector		[t]				relative	see description and reasoning in:	
<b>NATIONAL TOTAL</b>		<b>165,692</b>	<b>165,690</b>	<b>-0,001</b>	<b>-0,001%</b>	<b>sub-category chapters</b>		
<b>NFR 1 - Energy</b>		<b>122,2858</b>	<b>122,2860</b>	<b>0,0002</b>	<b>0,0001%</b>	<b>sub-category chapters</b>		
1.A.2.g vii		0,010	0,007	-0,003	-28,8%	<a href="#">here</a>		
1.A.3.a i(i)		0,0000025	0,0000009	-0,0000015	-62,4%	<a href="#">here</a>		
1.A.3.a ii(i)		0,0000355	0,0000382	0,0000027	7,61%	<a href="#">here</a>		
1.A.3.c		27,6524	27,6526	0,0002	0,001%	<a href="#">here</a>		
1.A.4.a ii		0,0016	0,0014	-0,0002	-12,7%	<a href="#">here</a>		
1.A.4.c ii		0,039	0,042	0,003	7,74%	<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>				
<b>NFR 3 - Agriculture</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>					
<b>NFR 5 - Waste</b>	<b>0,029</b>	<b>0,027</b>	<b>-0,002</b>	<b>-5,96%</b>	<b>sub-category chapters</b>			
5.E	0,029	0,027	-0,002	-5,96%	<a href="#">here</a>			
<b>NFR 6 - Other</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</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

		Submission 2022		Submission 2023		Difference		Reasoning
NFR Sector		[t]				relative	see description and reasoning in:	
<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.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>				