

# Recalculations - Nitrogen Oxides

The marginal changes within the **National Total** reported for **1990 (+3.77 kt or +0.13 %)** are dominated by changes in NFRs **1.A.3.d ii**, and **1.A.2.g vii** and **1.A.4.c ii** together with less significant revisions throughout NFRs 1, 2 and 3.

The most significant percental change occurs for **NFR 3.B.4.e with plus 450 %**.

Table 1: Changes of emission estimates 1990

	Submission 2024		Submission 2025		
NFR Sector	[kt]			relative	see description and reasoning in:
<b>NATIONAL TOTAL</b>	<b>2.842,27</b>	<b>2.846,04</b>	<b>3,77</b>	<b>0,13%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>2.597,94</b>	<b>2.599,34</b>	<b>1,40</b>	<b>0,05%</b>	<b>sub-category chapters</b>
1.A.2.g vii	35,42	34,65	-0,76	-2,16%	<a href="#">here</a>
1.A.3.d ii	51,59	53,25	1,66	3,22%	<a href="#">here</a>
1.A.4.a ii	10,59	10,44	-0,15	-1,40%	<a href="#">here</a>
1.A.4.c ii	63,59	64,29	0,69	1,09%	<a href="#">here</a>
1.A.4.c iii	0,39	0,38	-0,01	-1,90%	<a href="#">here</a>
1.A.5.b	41,20	41,17	-0,03	-0,08%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>100,73</b>	<b>100,73</b>	<b>0,00</b>	<b>0,00%</b>	
<b>NFR 3 - Agriculture</b>	<b>142,87</b>	<b>145,23</b>	<b>2,36</b>	<b>1,65%</b>	<b>sub-category chapters</b>
3.B.1.a	0,67	0,89	0,22	33,0%	<a href="#">here</a>
3.B.1.b	0,6896	0,8427	0,15	22,2%	<a href="#">here</a>
3.B.2	0,02	0,04	0,02	100%	<a href="#">here</a>
3.B.3	0,28	0,36	0,08	28,1%	<a href="#">here</a>
3.B.4.d	0,00114	0,00228	0,00114	100%	<a href="#">here</a>
3.B.4.e	0,042	0,232	0,190	450%	<a href="#">here</a>
3.B.4.g ii	0,00562	0,00560	-0,00002	-0,41%	<a href="#">here</a>
3.B.4.g iii	0,00339	0,00343	0,00004	1,23%	<a href="#">here</a>
3.B.4.g iv	0,0025	0,0028	0,0003	13,7%	<a href="#">here</a>
3.B.4.h	0,0038	0,0077	0,0038	100%	<a href="#">here</a>
3.D.a.2.a	44,59	45,94	1,35	3,04%	<a href="#">here</a>
3.D.a.3	8,50	8,84	0,34	4,01%	<a href="#">here</a>
<b>NFR 5 - Waste</b>	<b>0,74</b>	<b>0,74</b>	<b>0,00</b>	<b>0,00%</b>	
<b>NFR 6 - Other</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	

The changes within the **National Total** reported for **2022 (-15.2 kt or -1.61 %)** are dominated by revisions in NFRs **1.A.1.a** (-13 kt) and **1.A.2.g viii** (-4.71 kt) together with less significant revisions **throughout NFRs 1, 2 and 3**.

Here, the most significant percental change occurs for **NFR 3.B.4.e with plus 468 %**.

Table 2: Changes of emission estimates 2020

	Submission 2024	Submission 2025	Difference		Reasoning
NFR Sector	[kt]			relative	see description and reasoning in:
<b>NATIONAL TOTAL</b>	<b>941,99</b>	<b>926,84</b>	<b>-15,15</b>	<b>-1,61%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>785,20</b>	<b>767,94</b>	<b>-17,26</b>	<b>-2,20%</b>	<b>sub-category chapters</b>
1.A.1.a	213,35	200,36	-13,00	-6,09%	<a href="#">here</a>
1.A.1.b	15,62	15,21	-0,41	-2,65%	<a href="#">here</a>
1.A.1.c	12,31	12,09	-0,21	-1,73%	<a href="#">here</a>
1.A.2.a	3,57	3,59	0,03	0,73%	<a href="#">here</a>
1.A.2.b	0,87	0,90	0,04	4,20%	<a href="#">here</a>
1.A.2.e	0,21	0,19	-0,01	-6,98%	<a href="#">here</a>
1.A.2.g vii	6,56	6,11	-0,45	-6,83%	<a href="#">here</a>
1.A.2.g viii	68,53	63,82	-4,71	-6,87%	<a href="#">here</a>
1.A.3.a i(i)	8,30	8,31	0,01	0,14%	<a href="#">here</a>

	Submission 2024	Submission 2025	Difference		Reasoning
NFR Sector	[kt]		relative		see description and reasoning in:
<b>NATIONAL TOTAL</b>	<b>941,99</b>	<b>926,84</b>	<b>-15,15</b>	<b>-1,61%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>785,20</b>	<b>767,94</b>	<b>-17,26</b>	<b>-2,20%</b>	<b>sub-category chapters</b>
1.A.3.a ii(i)	1,2796	1,2802	0,0006	0,04%	<a href="#">here</a>
1.A.3.b i	178,53	178,82	0,29	0,16%	<a href="#">here</a>
1.A.3.b ii	45,78	45,03	-0,75	-1,64%	<a href="#">here</a>
1.A.3.b iii	70,08	70,78	0,70	1,00%	<a href="#">here</a>
1.A.3.b iv	1,40	1,37	-0,03	-2,41%	<a href="#">here</a>
1.A.3.c	7,84	7,85	0,01	0,07%	<a href="#">here</a>
1.A.3.d ii	20,47	19,25	-1,22	-5,96%	<a href="#">here</a>
1.A.4.a i	17,77	17,69	-0,07	-0,42%	<a href="#">here</a>
1.A.4.a ii	6,38	6,08	-0,29	-4,58%	<a href="#">here</a>
1.A.4.b i	59,79	61,02	1,23	2,06%	<a href="#">here</a>
1.A.4.b ii	0,39	0,41	0,02	5,04%	<a href="#">here</a>
1.A.4.c i	7,58	7,90	0,32	4,21%	<a href="#">here</a>
1.A.4.c ii	32,56	33,58	1,02	3,14%	<a href="#">here</a>
1.A.4.c iii	0,259	0,244	-0,015	-5,63%	<a href="#">here</a>
1.A.5.a	0,259	0,259	0,00	0,00%	<a href="#">here</a>
1.A.5.b	2,61	2,92	0,31	11,88%	<a href="#">here</a>
1.B.1.b	0,28	0,23	-0,05	-18,66%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>54,44</b>	<b>54,91</b>	<b>0,47</b>	<b>0,86%</b>	<b>sub-category chapters</b>
2.A.2	3,642	3,715	0,07	1,98%	<a href="#">here</a>
2.A.3	10,99	11,39	0,40	3,61%	<a href="#">here</a>
2.B.3	0,102	0,101	-0,001	-0,87%	<a href="#">here</a>
2.G	0,196	0,196	0,00	0,01%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>101,25</b>	<b>102,90</b>	<b>1,65</b>	<b>1,63%</b>	<b>sub-category chapters</b>
3.B.1.a	0,485	0,544	0,06	12,07%	<a href="#">here</a>
3.B.1.b	0,495	0,561	0,07	13,34%	<a href="#">here</a>
3.B.2	0,01	0,02	0,01	100%	<a href="#">here</a>
3.B.3	0,195	0,224	0,03	14,68%	<a href="#">here</a>
3.B.4.d	0,00206	0,00406	0,00	96,4%	<a href="#">here</a>
3.B.4.e	0,0393	0,2238	0,18	468%	<a href="#">here</a>
3.B.4.g i	0,019	0,017	-0,002	-9,26%	<a href="#">here</a>
3.B.4.g ii	0,0133	0,0126	-0,0007	-5,42%	<a href="#">here</a>
3.B.4.g iii	0,0094	0,0077	-0,0017	-18,40%	<a href="#">here</a>
3.B.4.g iv	0,002022	0,002057	0,000035	1,73%	<a href="#">here</a>
3.B.4.h	0,0006	0,0012	0,0006	98,7%	<a href="#">here</a>
3.D.a.1	45,46	44,29	-1,18	-2,59%	<a href="#">here</a>
3.D.a.2.a	35,22	36,65	1,43	4,06%	<a href="#">here</a>
3.D.a.2.b	0,474	0,476	0,002	0,33%	<a href="#">here</a>
3.D.a.2.c	13,92	14,67	0,75	5,35%	<a href="#">here</a>
3.D.a.3	4,78	5,11	0,33	7,01%	<a href="#">here</a>
3.I	0,12	0,09	-0,03	-27,61%	<a href="#">here</a>
<b>NFR 5 - Waste</b>	<b>1,10</b>	<b>1,10</b>	<b>0,00</b>	<b>0,00%</b>	
<b>NFR 6 - Other</b>		<b>NA</b>			