

# Recalculations - Ammonia

## Revision of Ammonia emissions over time

The small changes within the **National Total reported for 1990 (+4.45 kt | +0.59 %)** result almost entirely from revisions in **NFR 1.A.3.b i** together with less significant changes throughout NFRs 1 and 2.

Here, the strongest relative change occurs for **NFR 1.A.3.b i with +739%**.

Table 1: Changes in emission estimates for 1990

NFR Code	Submission 2020	Submission 2021	Difference		Reasoning
	[kt]			relative	
<b>NATIONAL TOTAL</b>	<b>760,05</b>	<b>715,09</b>	<b>-44,97</b>	<b>-5,92%</b>	see description and reasoning in: sub-category chapters
<b>NFR 1 - Energy</b>	<b>16,01509</b>	<b>15,53011</b>	<b>-0,48</b>	<b>-3,03%</b>	sub-category chapters
1.A.2.g vii	0,0078	0,0079	0,0001	1,75%	<a href="#">here</a>
1.A.3.a i(i)	0,05	0,05	0,00	-3,57%	<a href="#">here</a>
1.A.3.a ii(i)	0,04	0,04	0,00	6,35%	<a href="#">here</a>
1.A.3.b i	7,85	7,37	-0,48	-6,13%	<a href="#">here</a>
1.A.3.b ii	0,03	0,02	-0,01	-21,30%	<a href="#">here</a>
1.A.3.b iii	0,08	0,08	0,00	4,14%	<a href="#">here</a>
1.A.3.b iv	0,03	0,03	0,00	-6,18%	<a href="#">here</a>
1.A.4.a ii	0,00	0,00	0,00	12,98%	<a href="#">here</a>
1.A.4.c ii	0,01	0,01	0,00	-1,13%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>19,08</b>	<b>17,81</b>	<b>-1,27</b>	<b>-6,66%</b>	sub-category chapters
2.G	2,18	0,90	-1,27	-58,42%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>724,79</b>	<b>681,58</b>	<b>-43,21</b>	<b>-5,96%</b>	sub-category chapters
3.B.1.a	75,05	62,19	-12,86	-17,14%	<a href="#">here</a>
3.B.1.b	101,28	91,39	-9,88	-9,76%	<a href="#">here</a>
3.B.2	2,56	2,71	0,15	5,83%	<a href="#">here</a>
3.B.4.g i	13,15	11,45	-1,70	-12,91%	<a href="#">here</a>
3.B.4.g ii	3,67	5,07	1,40	38,09%	<a href="#">here</a>
3.B.4.g iii	3,94	3,96	0,02	0,49%	<a href="#">here</a>
3.B.4.g iv	1,95	2,48	0,53	27,45%	<a href="#">here</a>
3.D.a.1	78,45	78,82	0,38	0,48%	<a href="#">here</a>
3.D.a.2.a	302,62	273,67	-28,96	-9,57%	<a href="#">here</a>
3.D.a.3	14,45	22,16	7,71	53,32%	<a href="#">here</a>
<b>NFR 5 - Waste</b>	<b>0,16</b>	<b>0,16</b>	<b>0,00</b>	<b>0,00%</b>	
<b>NFR 6 - Other</b>		<b>NA</b>			

The small changes within the **National Total reported for 2017 (-7.57 kt | -1.12 %)** result mainly from a variety of more or less significant revisions throughout **NFRs 1 and 3**.

Here, the strongest relative change occurs for **NFR 1.A.3.b iii with +217%**.

Table 2: Changes in emission estimates for 2018

NFR Code	Submission 2020	Submission 2021	Difference		Reasoning
	[kt]			relative	
<b>NATIONAL TOTAL</b>	<b>636,43</b>	<b>601,24</b>	<b>-35,18</b>	<b>-5,53%</b>	see description and reasoning in: sub-category chapters
<b>NFR 1 - Energy</b>	<b>13,67</b>	<b>13,82</b>	<b>0,15</b>	<b>1,12%</b>	sub-category chapters
1.A.1.a	0,686	0,704	0,02	2,75%	<a href="#">here</a>
1.A.1.b	0,489	0,582	0,09	18,89%	<a href="#">here</a>
1.A.1.c	0,0269	0,0268	-0,0001	-0,33%	<a href="#">here</a>
1.A.2.a	0,1069	0,1078	0,0010	0,89%	<a href="#">here</a>
1.A.2.b	0,0070	0,0071	0,0001	1,04%	<a href="#">here</a>
1.A.2.e	0,001	0,002	0,0003	21,26%	<a href="#">here</a>
1.A.2.f	0,024	0,021	-0,003	-11,34%	<a href="#">here</a>

	Submission 2020	Submission 2021	Difference		Reasoning
NFR Code	[kt]			relative	see description and reasoning in:
<b>NATIONAL TOTAL</b>	<b>636,43</b>	<b>601,24</b>	<b>-35,18</b>	<b>-5,53%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>13,67</b>	<b>13,82</b>	<b>0,15</b>	<b>1,12%</b>	<b>sub-category chapters</b>
1.A.2.g vii	0,007	0,008	0,001	9,37%	<a href="#">here</a>
1.A.2.g viii	0,386	0,385	-0,001	-0,35%	<a href="#">here</a>
1.A.3.a i(i)	0,137	0,132	-0,004	-3,08%	<a href="#">here</a>
1.A.3.a ii(i)	0,031	0,033	0,003	8,47%	<a href="#">here</a>
1.A.3.b i	8,939	9,105	0,17	1,86%	<a href="#">here</a>
1.A.3.b ii	0,157	0,151	-0,01	-3,76%	<a href="#">here</a>
1.A.3.b iii	0,735	0,709	-0,03	-3,55%	<a href="#">here</a>
1.A.3.b iv	0,0210	0,0214	0,0004	1,72%	<a href="#">here</a>
1.A.3.c	0,008	0,007	-0,001	-11,48%	<a href="#">here</a>
1.A.3.d ii	0,0069	0,0071	0,0002	2,79%	<a href="#">here</a>
1.A.4.a i	0,475	0,415	-0,06	-12,70%	<a href="#">here</a>
1.A.4.a ii	0,00194	0,00189	-0,00006	-2,87%	<a href="#">here</a>
1.A.4.b i	1,354	1,328	-0,03	-1,92%	<a href="#">here</a>
1.A.4.b ii	0,00037660	0,00037655	-0,00000005	-0,01%	<a href="#">here</a>
1.A.4.c i	0,044	0,038	-0,005	-12,16%	<a href="#">here</a>
1.A.4.c ii	0,0096	0,0093	-0,0003	-2,81%	<a href="#">here</a>
1.A.4.c iii	0,00079	0,00081	0,00002	2,70%	<a href="#">here</a>
1.A.5.a	0,004321	0,004324	0,000003	0,08%	<a href="#">here</a>
1.A.5.b	0,011	0,015	0,004	36,91%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>12,439</b>	<b>11,807</b>	<b>-0,63</b>	<b>-5,08%</b>	<b>sub-category chapters</b>
2.A.3	0,76	0,76	0,00	-0,22%	<a href="#">here</a>
2.G	1,25	0,62	-0,63	-50,27%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>606,72</b>	<b>572,13</b>	<b>-34,59</b>	<b>-5,70%</b>	<b>sub-category chapters</b>
3.B.1.a	64,24	50,74	-13,49	-21,01%	<a href="#">here</a>
3.B.1.b	73,74	65,85	-7,90	-10,71%	<a href="#">here</a>
3.B.2	1,44	1,52	0,08	5,83%	<a href="#">here</a>
3.B.3	90,63	90,54	-0,09	-0,10%	<a href="#">here</a>
3.B.4.g i	9,65	7,85	-1,80	-18,67%	<a href="#">here</a>
3.B.4.g ii	9,35	12,43	3,09	33,00%	<a href="#">here</a>
3.B.4.g iii	10,59	10,62	0,02	0,21%	<a href="#">here</a>
3.B.4.g iv	1,27	1,55	0,28	22,04%	<a href="#">here</a>
3.D.a.1	73,52	76,79	3,27	4,45%	<a href="#">here</a>
3.D.a.2.a	196,64	175,65	-20,98	-10,67%	<a href="#">here</a>
3.D.a.2.b	1,89	1,73	-0,16	-8,55%	<a href="#">here</a>
3.D.a.2.c	55,66	54,63	-1,03	-1,86%	<a href="#">here</a>
3.D.a.3	8,71	12,93	4,22	48,39%	<a href="#">here</a>
3.I	3,29	3,20	-0,09	-2,68%	<a href="#">here</a>
<b>NFR 5 - Waste</b>	<b>3,597</b>	<b>3,483</b>	<b>-0,11</b>	<b>-3,15%</b>	<b>sub-category chapters</b>
5.B.1	2,04	1,96	-0,08	-4,10%	<a href="#">here</a>
5.B.2	1,56	1,53	-0,03	-1,91%	<a href="#">here</a>
<b>NFR 6 - Other</b>	<b>NA</b>				