

## Recalculations - Ammonia

The small changes within the **National Total reported for 1990 (-3.1 kt | -0.43 %)** result almost entirely from revisions in NFRs **2.B.10.a** (-3.14 kt), **3.B.3** (+4.69 kt) and **3.D.a.2.a** (+1.54 kt) together with less significant changes throughout NFRs 1 and 2.

However, the most significant percental change occurs for **NFR 1.A.3.d ii with minus 54 %**.

Table 1: Changes in emission estimates for 1990

NFR Code	Submission 2020	Submission 2021	Difference		Reasoning
	[kt]			relative	see description and reasoning in:
<b>NATIONAL TOTAL</b>	<b>715,09</b>	<b>718,16</b>	<b>3,07</b>	<b>0,43%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>15,53</b>	<b>15,54</b>	<b>0,01</b>	<b>0,03%</b>	<b>sub-category chapters</b>
1.A.3.b iii	0,08	0,08	0,00	0,03%	<a href="#">here</a>
1.A.3.c	0,02	0,03	0,01	38,23%	<a href="#">here</a>
1.A.3.d ii	0,01	0,01	0,00	-24,12%	<a href="#">here</a>
1.A.4.b ii	0,000162	0,000160	-0,000003	-1,71%	<a href="#">here</a>
1.A.4.c iii	0,0002	0,0001	-0,0001	-54,03%	<a href="#">here</a>
1.A.5.b	0,3000	0,2999	-0,0001	-0,05%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>17,81</b>	<b>14,68</b>	<b>-3,14</b>	<b>-17,60%</b>	<b>sub-category chapters</b>
2.B.10.a	9,57	6,44	-3,14	-32,76%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>681,58</b>	<b>687,79</b>	<b>6,20</b>	<b>0,91%</b>	<b>sub-category chapters</b>
3.B.1.b	91,39	91,43	0,03	0,04%	<a href="#">here</a>
3.B.3	117,12	121,81	4,69	4,00%	<a href="#">here</a>
3.B.4.g i	11,45	11,31	-0,14	-1,19%	<a href="#">here</a>
3.B.4.g iii	3,96	3,99	0,02	0,61%	<a href="#">here</a>
3.B.4.g iv	2,48	2,47	-0,01	-0,50%	<a href="#">here</a>
3.D.a.2.a	273,67	275,21	1,54	0,56%	<a href="#">here</a>
3.D.a.3	22,16	22,23	0,07	0,30%	<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>			

Changes within the **National Total reported for 2018 (-35.2 kt | -5.53 %)** result almost entirely from revisions in **NFR 3 (-34.6 kt)** together with less significant changes throughout NFRs 1 and 2.

The most significant relative change occurs for **NFR 2.G with minus 50 %**.

Table 2: Changes in emission estimates for 2018

NFR Code	Submission 2020	Submission 2021	Difference		Reasoning
	[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.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>
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>

	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.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.l	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%	