

# Recalculations - Black Carbon (BC)

## Revision of Black Carbon emissions over time:



The small changes within the **National Total reported for 1990 (-0.7 kt | -1.7 %)** are dominated by changes in **NFRs 1.A.3.b i, 1.A.3.b ii and 1.A.4.c ii** together with less significant revisions throughout NFRs 1, 2 and 3.

Table 1: Changes of emission estimates 2000

NFR Sector	Submission 2020	Submission 2021	Difference		Reasoning see description and reasoning in:
	[kt]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>39,76</b>	<b>39,08</b>	<b>-0,67</b>	<b>-1,70%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>39,07</b>	<b>38,41</b>	<b>-0,66</b>	<b>-1,69%</b>	<b>sub-category chapters</b>
1.A.2.g vii	2,16	2,28	0,12	5,35%	<a href="#">here</a>
1.A.3.a i(i)	0,026	0,031	0,005	20,58%	<a href="#">here</a>
1.A.3.a ii(i)	0,012	0,017	0,005	40,44%	<a href="#">here</a>
1.A.3.b i	9,75	10,11	0,36	3,73%	<a href="#">here</a>
1.A.3.b ii	4,72	3,91	-0,81	-17,15%	<a href="#">here</a>
1.A.3.b iii	10,48	10,70	0,22	2,11%	<a href="#">here</a>
1.A.3.b iv	0,157	0,162	0,005	3,14%	<a href="#">here</a>
1.A.3.b vi	1,625	1,621	-0,005	-0,29%	<a href="#">here</a>
1.A.4.a ii	0,47	0,49	0,02	5,16%	<a href="#">here</a>
1.A.4.b ii	0,0042	0,0045	0,0003	7,04%	<a href="#">here</a>
1.A.4.c ii	4,57	3,98	-0,59	-12,86%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>0,03</b>	<b>0,02</b>	<b>-0,01</b>	<b>-43,30%</b>	<b>sub-category chapters</b>
2.G	0,02	0,01	-0,01	-50,60%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>0,65</b>	<b>0,65</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 1990 (-0.08 kt | -0.6 %)** result from multiple revisions throughout NFRs 1, 2 and 3.

Table 2: Changes of emission estimates 2018

NFR Sector	Submission 2020	Submission 2021	Difference		Reasoning see description and reasoning in:
	[kt]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>12,55</b>	<b>12,47</b>	<b>-0,08</b>	<b>-0,62%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>11,93</b>	<b>11,86</b>	<b>-0,07</b>	<b>-0,58%</b>	<b>sub-category chapters</b>
1.A.1.a	0,04389	0,04393	0,00005	0,10%	<a href="#">here</a>
1.A.1.b	0,02	0,05	0,03	161%	<a href="#">here</a>
1.A.1.c	0,00054	0,00056	0,00	3,95%	<a href="#">here</a>
1.A.2.g vii	0,658	0,731	0,07	11,07%	<a href="#">here</a>
1.A.2.g viii	0,09	0,08	-0,01	-13,76%	<a href="#">here</a>
1.A.3.a i(i)	0,041	0,037	-0,004	-8,62%	<a href="#">here</a>
1.A.3.a ii(i)	0,010	0,014	0,005	48,07%	<a href="#">here</a>
1.A.3.b i	1,79	1,87	0,09	4,79%	<a href="#">here</a>
1.A.3.b ii	1,01	1,02	0,01	0,74%	<a href="#">here</a>
1.A.3.b iii	1,12	1,10	-0,03	-2,53%	<a href="#">here</a>
1.A.3.b iv	0,17	0,17	0,01	3,86%	<a href="#">here</a>
1.A.3.b vi	1,865	1,862	-0,003	-0,15%	<a href="#">here</a>
1.A.3.c	0,09	0,08	-0,01	-13,72%	<a href="#">here</a>
1.A.3.d ii	0,32	0,34	0,01	3,60%	<a href="#">here</a>

	Submission 2020	Submission 2021	Difference		
<b>NFR Sector</b>	<b>[kt]</b>			<b>relative</b>	<b>see description and reasoning in:</b>
<b>NATIONAL TOTAL</b>	<b>12,55</b>	<b>12,47</b>	<b>-0,08</b>	<b>-0,62%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>11,93</b>	<b>11,86</b>	<b>-0,07</b>	<b>-0,58%</b>	<b>sub-category chapters</b>
1.A.4.a i	0,51	0,45	-0,06	-12,04%	<a href="#">here</a>
1.A.4.a ii	0,191	0,164	-0,03	-14,50%	<a href="#">here</a>
1.A.4.b i	1,54	1,69	0,15	9,51%	<a href="#">here</a>
1.A.4.b ii	0,0067	0,0064	-0,0003	-4,97%	<a href="#">here</a>
1.A.4.c i	0,08419	0,08421	0,00002	0,03%	<a href="#">here</a>
1.A.4.c ii	2,29	1,99	-0,29	-12,84%	<a href="#">here</a>
1.A.4.c iii	0,0256	0,0263	0,0007	2,70%	<a href="#">here</a>
1.A.5.a	0,0063	0,0064	0,0002	2,41%	<a href="#">here</a>
1.A.5.b	0,0231	0,0290	0,01	25,71%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>0,02</b>	<b>0,01</b>	<b>-0,01</b>	<b>-42,52%</b>	<b>sub-category chapters</b>
2.G	0,02	0,01	-0,01	-50,27%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>NA</b>				
<b>NFR 5 - Waste</b>	<b>0,61</b>	<b>0,61</b>	<b>0,00</b>	<b>0,00%</b>	
<b>NFR 6 - Other</b>	<b>NA</b>				