

# Recalculations - Total Suspended Particles (TSP)

## Revision of TSP emissions over time

The small changes within the **National Total reported for 1990 (-6.44 kt | -0.31 %)** are dominated by a revision of emission estimates for **NFR 2.G (-5.48 kt)** together with less significant revisions in NFRs 1, 2 and 3.

The strongest relative change occurs for **NFR 2.C.7.a with plus 62 %**.

Table 1: Changes in emission estimates for 1990

NFR Sector	Submission 2020	Submission 2021	Difference		Reasoning
	[kt]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>2.056,96</b>	<b>2.050,52</b>	<b>-6,44</b>	<b>-0,31%</b>	see description and reasoning in: sub-category chapters
<b>NFR 1 - Energy</b>	<b>1.407,71</b>	<b>1.406,91</b>	<b>-0,80</b>	<b>-0,06%</b>	sub-category chapters
1.A.2.g vii	7,06	7,18	0,11	1,62%	<a href="#">here</a>
1.A.3.a i(i)	0,03	0,05	0,02	49,25%	<a href="#">here</a>
1.A.3.a ii(i)	0,08	0,05	-0,03	-37,74%	<a href="#">here</a>
1.A.3.b i	16,96	17,17	0,20	1,20%	<a href="#">here</a>
1.A.3.b ii	4,22	2,71	-1,51	-35,86%	<a href="#">here</a>
1.A.3.b iii	28,38	29,56	1,17	4,14%	<a href="#">here</a>
1.A.3.b iv	2,38	2,23	-0,15	-6,18%	<a href="#">here</a>
1.A.3.b vi	12,71	12,67	-0,04	-0,30%	<a href="#">here</a>
1.A.4.a ii	1,51	1,53	0,01	0,93%	<a href="#">here</a>
1.A.4.b ii	0,17	0,22	0,06	32,50%	<a href="#">here</a>
1.A.4.c ii	13,61	12,96	-0,65	-4,81%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>570,85</b>	<b>565,43</b>	<b>-5,42</b>	<b>-0,95%</b>	sub-category chapters
2.C.7.a	0,10	0,17	0,07	62,34%	<a href="#">here</a>
2.G	9,74	4,26	-5,48	-56,29%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>67,70</b>	<b>67,48</b>	<b>-0,22</b>	<b>-0,32%</b>	sub-category chapters
3.B.1.a	7,92	7,70	-0,22	-2,73%	<a href="#">here</a>
<b>NFR 5 - Waste</b>	<b>10,70</b>	<b>10,70</b>	<b>0,00</b>	<b>0,00%</b>	
<b>NFR 6 - Other</b>	<b>NA</b>				

The changes within the **National Total reported for 2018 (-4.18 kt | -1.08 %)** are dominated by revised emission estimates for **NFR 2.G (-5.16 kt)**.

In addition, several more or less significant revisions occur in NFRs **1, 2, 3 and 5**.

The most significant relative change occurs for **NFR 2.C.7.c with minus 73 %**

Table 2: Changes in emission estimates for 2018

NFR Sector	Submission 2020	Submission 2021	Difference		Reasoning
	[kt]		absolute	relative	
<b>NATIONAL TOTAL</b>	<b>387,72</b>	<b>383,54</b>	<b>-4,18</b>	<b>-1,08%</b>	see description and reasoning in: sub-category chapters
<b>NFR 1 - Energy</b>	<b>100,68</b>	<b>101,56</b>	<b>0,88</b>	<b>0,88%</b>	sub-category chapters
1.A.1.a	5,52	5,59	0,07	1,23%	<a href="#">here</a>
1.A.1.b	0,43	0,58	0,14	32,54%	<a href="#">here</a>
1.A.1.c	0,49	0,53	0,04	7,70%	<a href="#">here</a>
1.A.2.a	0,083	0,081	-0,002	-2,21%	<a href="#">here</a>
1.A.2.g vii	0,88	0,97	0,10	10,86%	<a href="#">here</a>
1.A.2.g viii	2,74	2,58	-0,16	-5,93%	<a href="#">here</a>
1.A.3.a i(i)	0,09	0,08	-0,01	-7,58%	<a href="#">here</a>
1.A.3.a ii(i)	0,03	0,04	0,01	43,17%	<a href="#">here</a>
1.A.3.b i	3,01	3,14	0,13	4,37%	<a href="#">here</a>
1.A.3.b ii	1,345	1,348	0,003	0,25%	<a href="#">here</a>
1.A.3.b iii	1,99	1,94	-0,05	-2,69%	<a href="#">here</a>
1.A.3.b iv	0,94	0,98	0,04	3,86%	<a href="#">here</a>

	Submission 2020	Submission 2021	Difference		Reasoning
NFR Sector	[kt]		relative	see description and reasoning in:	
<b>NATIONAL TOTAL</b>	<b>387,72</b>	<b>383,54</b>	<b>-4,18</b>	<b>-1,08%</b>	<b>sub-category chapters</b>
<b>NFR 1 - Energy</b>	<b>100,68</b>	<b>101,56</b>	<b>0,88</b>	<b>0,88%</b>	<b>sub-category chapters</b>
1.A.3.b vi	18,62	18,60	-0,03	-0,15%	<a href="#">here</a>
1.A.3.b vii	15,71	15,69	-0,02	-0,16%	<a href="#">here</a>
1.A.3.c	8,58	8,57	-0,02	-0,23%	<a href="#">here</a>
1.A.3.d ii	1,13	1,16	0,03	2,73%	<a href="#">here</a>
1.A.3.e i	0,00760	0,00763	0,00003	0,45%	<a href="#">1.A.3.e i - Pipeline Transport ]</a>
1.A.4.a i	2,36	2,09	-0,27	-11,48%	<a href="#">here</a>
1.A.4.a ii	0,25	0,21	-0,04	-14,65%	<a href="#">here</a>
1.A.4.b i	17,78	19,34	1,56	8,77%	<a href="#">here</a>
1.A.4.b ii	0,134	0,127	-0,007	-4,97%	<a href="#">here</a>
1.A.4.c i	0,513	0,506	-0,006	-1,26%	<a href="#">here</a>
1.A.4.c ii	3,86	3,24	-0,62	-15,99%	<a href="#">here</a>
1.A.4.c iii	0,088	0,091	0,002	2,70%	<a href="#">here</a>
1.A.5.a	0,028	0,029	0,001	2,07%	<a href="#">here</a>
1.A.5.b	0,0702	0,0703	0,0001	0,14%	<a href="#">here</a>
<b>NFR 2 - IPPU</b>	<b>216,90</b>	<b>211,90</b>	<b>-5,00</b>	<b>-2,31%</b>	<b>sub-category chapters</b>
2.A.3	0,22	0,22	0,00	-0,80%	<a href="#">here</a>
2.A.5.a	41,07	41,25	0,18	0,44%	<a href="#">here</a>
2.C.2	0,0058	0,0053	-0,0005	-8,04%	<a href="#">here</a>
2.C.7.a	0,067	0,063	-0,004	-6,50%	<a href="#">here</a>
2.C.7.c	0,02	0,01	-0,01	-73,35%	<a href="#">here</a>
2.G	10,11	4,95	-5,16	-51,06%	<a href="#">here</a>
<b>NFR 3 - Agriculture</b>	<b>61,06</b>	<b>60,99</b>	<b>-0,07</b>	<b>-0,11%</b>	<b>sub-category chapters</b>
3.B.3	17,36	17,32	-0,04	-0,22%	<a href="#">here</a>
3.B.4.g i	10,16	10,15	-0,01	-0,13%	<a href="#">here</a>
3.B.4.g ii	3,72	3,71	-0,01	-0,38%	<a href="#">here</a>
<b>NFR 5 - Waste</b>	<b>9,0815</b>	<b>9,0813</b>	<b>-0,0002</b>	<b>0,00%</b>	<b>sub-category chapters</b>
5.A	0,0213	0,0211	-0,0002	-0,87%	<a href="#">here</a>
<b>NFR 6 - Other</b>	<b>NA</b>				