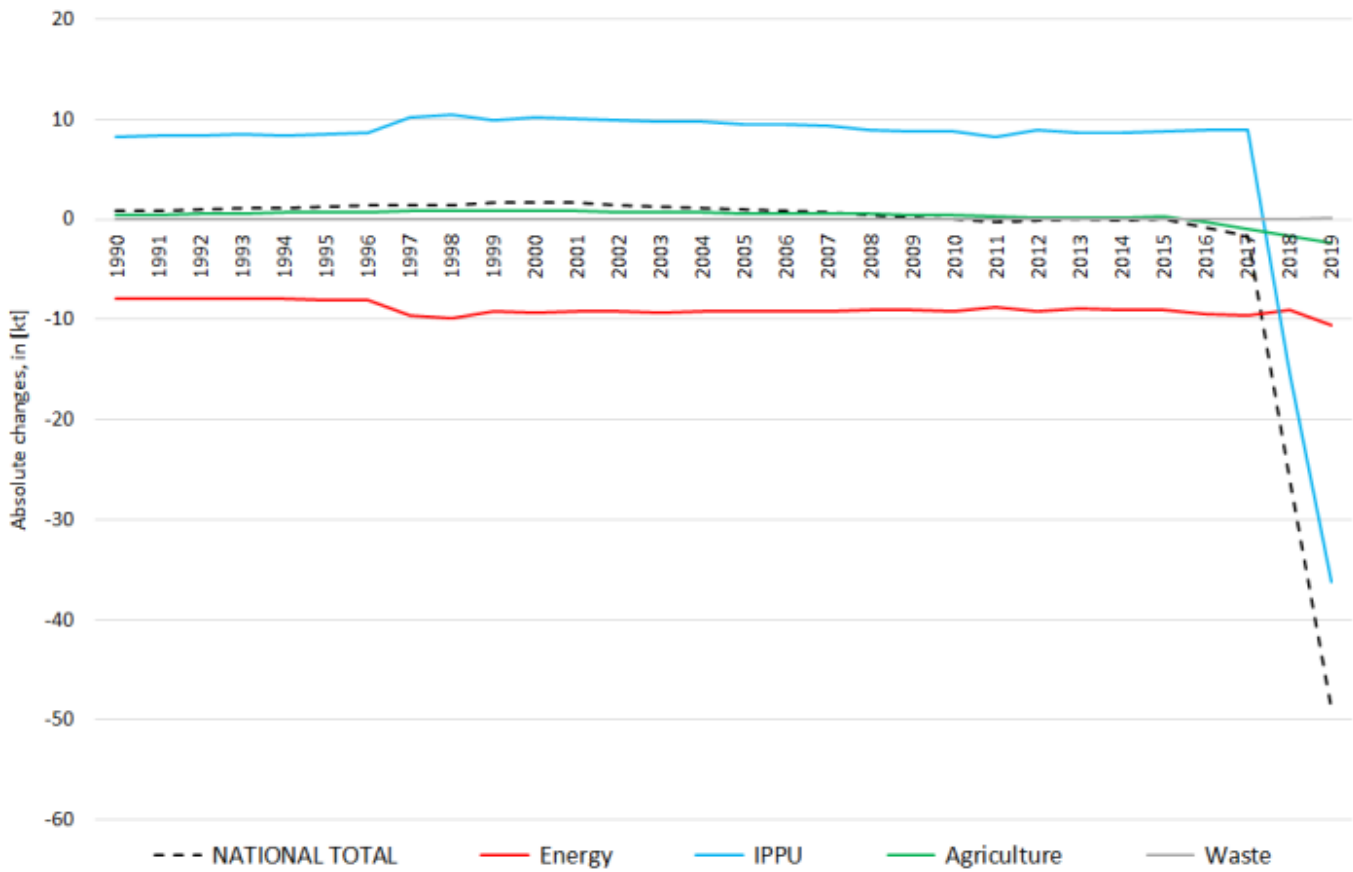
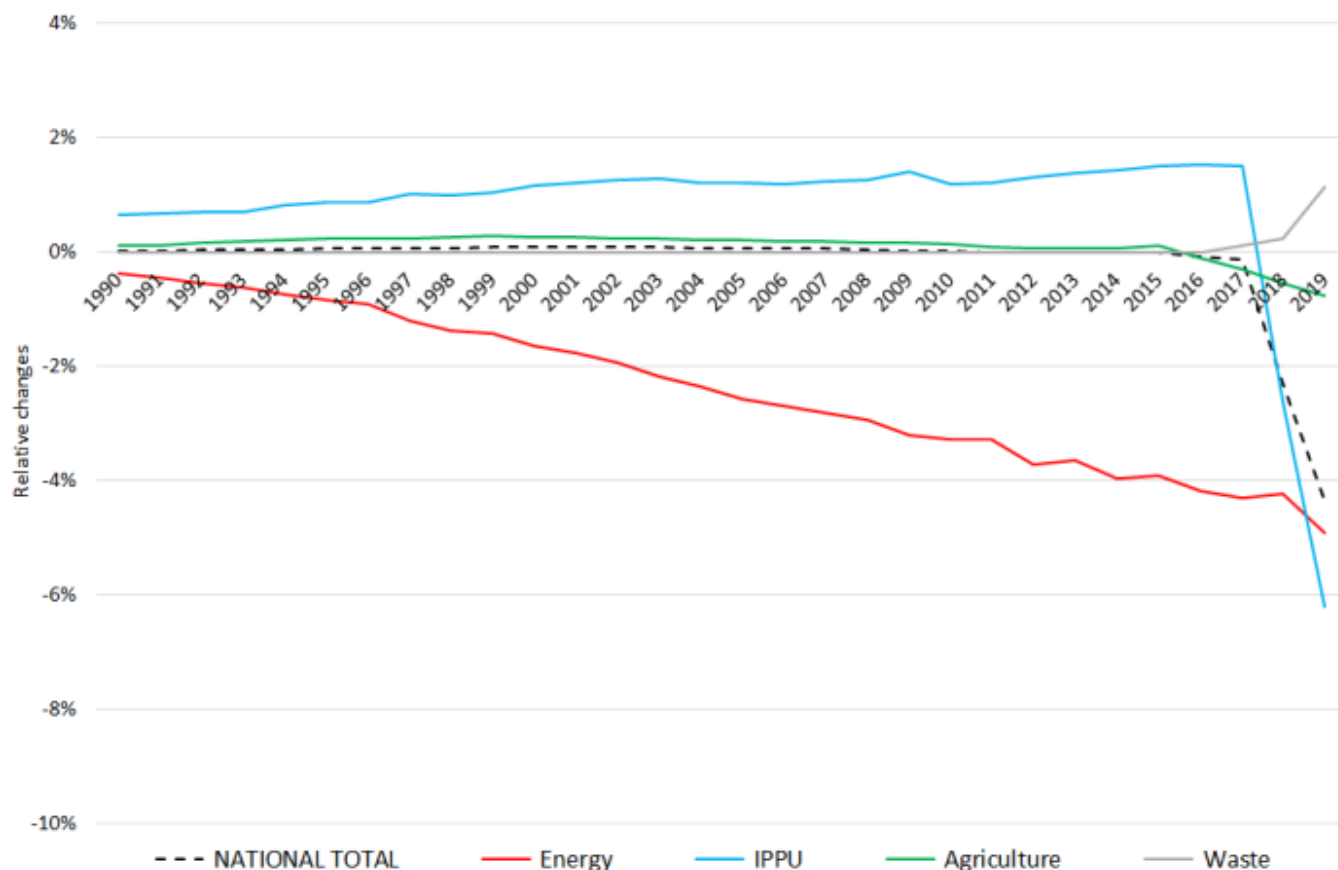


Recalculations - Non-Methane Volatile Organic Compounds

Revision of NMVOC emissions over time

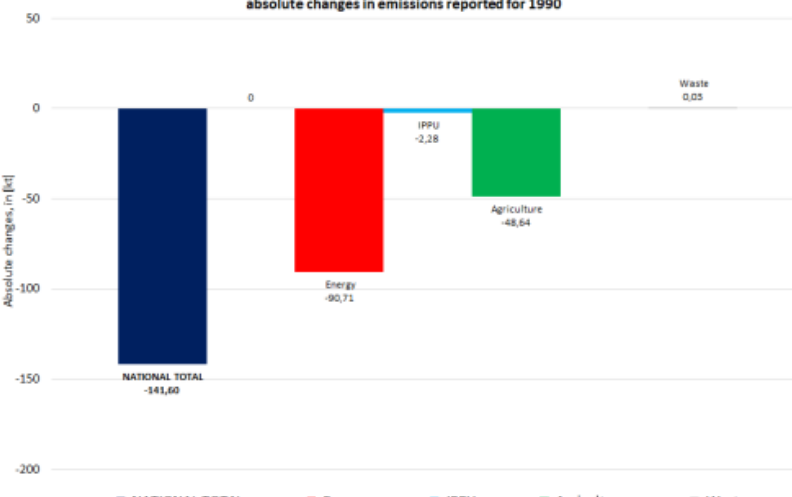


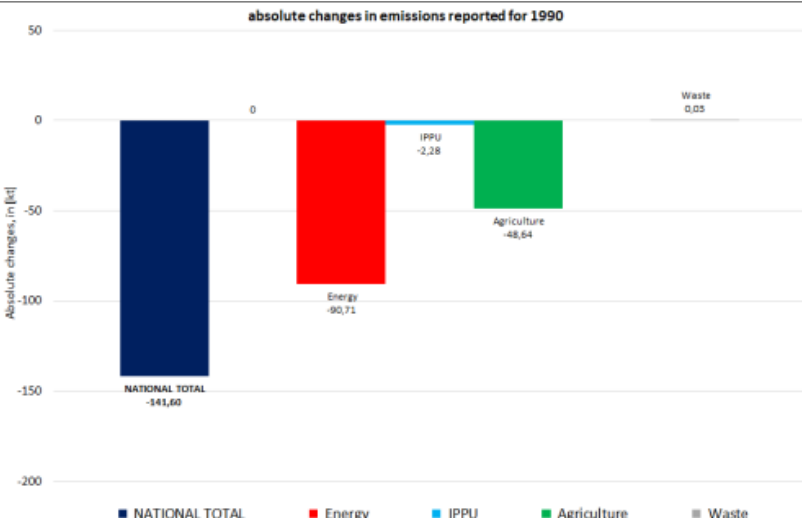


The significant changes within the **National Total reported for 1990 (-142 kt | -3.53 %)** are dominated by revisions in **NFR sub-category 1.A.3.b i (-71.6 kt | -6 %)** and **NFR 3 (-48.6 kt |-11 %)**.

Table 1: Changes in emission estimates for 1990

absolute changes in emissions reported for 1990					Submission 2021	Submission 2022	Difference	Reasoning	
NFR Code					[kt]			relative	see description and reasoning in:
NATIONAL TOTAL					3.890,85	3.891,58	0,73	0,02%	sub-category chapters
NFR 1 - Energy					2.170,57	2.162,57	-8,00	-0,37%	sub-category chapters
1.A.3.a i(i)					0,80	0,80	0,00	-0,49%	here
1.A.3.a ii(i)					0,50	0,42	-0,08	-15,49%	here
1.A.3.b i					1.119,06	1.119,06	0,00	0,00%	here
1.A.3.b ii					39,73	39,73	0,00	0,00%	here
1.A.3.b iii					60,10	60,12	0,02	0,03%	here
1.A.3.c					4,19	4,22	0,03	0,718%	here
1.A.3.d ii					3,20	3,27	0,07	2,106%	here

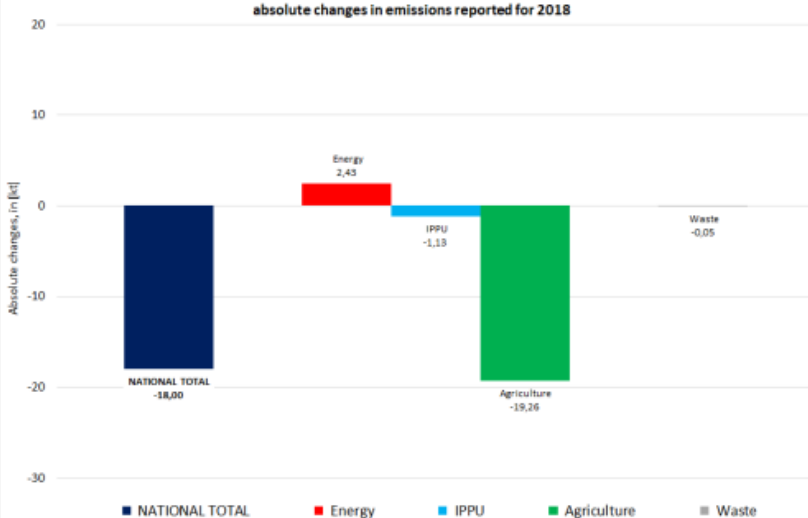
 absolute changes in emissions reported for 1990 Absolute changes, in [kt] Waste 0,05 IPPU -2,28 Agriculture -48,64 Energy -90,71 NATIONAL TOTAL -141,60 ■ NATIONAL TOTAL ■ Energy ■ IPPU ■ Agriculture ■ Waste	Submission 2021	Submission 2022	Difference		Reasoning
NFR Code	[kt]			relative	see description and reasoning in:
NATIONAL TOTAL	3.890,85	3.891,58	0,73	0,02%	sub-category chapters
NFR 1 - Energy	2.170,57	2.162,57	-8,00	-0,37%	sub-category chapters
1.A.4.b ii	12,48	12,52	0,04	0,32%	here
1.A.4.c iii	0,04	0,02	-0,02	-54,62%	here
1.A.5.b	21,32	21,30	-0,02	-0,10%	here
1.B.2.a iv	81,24	73,15	-8,09	-9,96%	
1.B.2.a v	87,73	87,79	0,05	0,06%	
NFR 2 - IPPU	1.283,34 1.291,63 8,30 0,65%				sub-category chapters
2.A.1	1,33	1,33	0,00	0,00%	here
2.A.2	0,33	0,33	0,00	0,00%	here
2.A.3	0,56	0,56	0,00	0,00%	here
2.A.5.a	NA	NA	#WERT!	#WERT!	here
2.A.5.b	NA	NA	#WERT!	#WERT!	here
2.A.5.c	NA	NA	#WERT!	#WERT!	here
2.A.6	IE	IE	#WERT!	#WERT!	here
2.B.1	NA	NA	#WERT!	#WERT!	here
2.B.2	NA	NA	#WERT!	#WERT!	here
2.B.3	NA	NA	#WERT!	#WERT!	here
2.B.5	NA	NA	#WERT!	#WERT!	here
2.B.6	NA	NA	#WERT!	#WERT!	here
2.B.7	NA	NA	#WERT!	#WERT!	here
2.B.10.a	52,28	52,28	0,00	0,00%	here
2.B.10.b	NA	8,09	#WERT!	#WERT!	here
2.C.1	6,57	6,57	0,00	0,00%	here
2.C.2	NE	NE	#WERT!	#WERT!	here
2.C.3	NE	NE	#WERT!	#WERT!	here
2.C.4	NE	NE	#WERT!	#WERT!	here
2.C.5	NA	NA	#WERT!	#WERT!	here
2.C.6	NA	NA	#WERT!	#WERT!	here
2.C.7.a	NA	NA	#WERT!	#WERT!	here
2.C.7.b	NE	NE	#WERT!	#WERT!	here
2.C.7.c	NA	NA	#WERT!	#WERT!	here
2.C.7.d	NA	NA	#WERT!	#WERT!	here
2.D.3.a	92,15	92,15	0,00	0,00%	here
2.D.3.b	1,90	1,90	0,00	0,00%	here
2.D.3.c	0,07	0,07	0,00	0,00%	here
2.D.3.d	540,00	540,00	0,00	0,00%	here
2.D.3.e	114,00	114,00	0,00	0,00%	here
2.D.3.f	1,41	1,41	0,00	0,00%	here
2.D.3.g	70,00	69,59	-0,41	-0,58%	here
2.D.3.h	139,36	139,36	0,00	0,00%	here
2.D.3.i	241,57	242,18	0,61	0,25%	here
2.G	1,62	1,62	0,00	0,00%	here
2.H.1	NA	NA	#WERT!	#WERT!	here

absolute changes in emissions reported for 1990  <table><thead><tr><th>Category</th><th>Value</th></tr></thead><tbody><tr><td>NATIONAL TOTAL</td><td>-141,60</td></tr><tr><td>Energy</td><td>-90,71</td></tr><tr><td>IPPU</td><td>-2,28</td></tr><tr><td>Agriculture</td><td>-48,64</td></tr><tr><td>Waste</td><td>0,05</td></tr></tbody></table>					Category	Value	NATIONAL TOTAL	-141,60	Energy	-90,71	IPPU	-2,28	Agriculture	-48,64	Waste	0,05	Submission 2021	Submission 2022	Difference	Reasoning
Category	Value																			
NATIONAL TOTAL	-141,60																			
Energy	-90,71																			
IPPU	-2,28																			
Agriculture	-48,64																			
Waste	0,05																			
NFR Code	[kt]			relative	see description and reasoning in:															
NATIONAL TOTAL	3.890,85	3.891,58	0,73	0,02%	sub-category chapters															
NFR 1 - Energy	2.170,57	2.162,57	-8,00	-0,37%	sub-category chapters															
2.H.2	15,20	15,20	0,00	0,00%	here															
2.H.3	NA	NA	#WERT!	#WERT!	here															
2.I	4,98	4,98	0,00	0,00%	here															
2.J	NE	NE	#WERT!	#WERT!	here															
2.K	NA	NA	#WERT!	#WERT!	here															
2.L	NA	NA	#WERT!	#WERT!	here															
NFR 3 - Agriculture	398,49	398,93	0,44	0,11%	sub-category chapters															
3.B.1.a	196,61	196,61	0,00	0,00%	here															
3.B.1.b	153,72	154,16	0,44	0,29%	here															
3.B.2	0,43	0,43	0,00	0,00%	here															
3.B.3	18,41	18,41	0,00	0,00%	here															
3.B.4.a	NO	NO	#WERT!	#WERT!	here															
3.B.4.d	0,05	0,05	0,00	0,00%	here															
3.B.4.e	3,25	3,25	0,00	0,00%	here															
3.B.4.f	IE	IE	#WERT!	#WERT!	here															
3.B.4.g i	8,82	8,82	0,00	0,00%	here															
3.B.4.g ii	3,82	3,82	0,00	0,00%	here															
3.B.4.g iii	2,46	2,46	0,00	0,00%	here															
3.B.4.g iv	3,23	3,23	0,00	0,00%	here															
3.B.4.h	NE	NE	#WERT!	#WERT!	here															
3.D.a.1	NA	NA	#WERT!	#WERT!	here															
3.D.a.2.a	NA	NA	#WERT!	#WERT!	here															
3.D.a.2.b	NA	NA	#WERT!	#WERT!	here															
3.D.a.2.c	NA	NA	#WERT!	#WERT!	here															
3.D.a.3	NA	NA	#WERT!	#WERT!	here															
3.D.a.4	NA	NA	#WERT!	#WERT!	here															
3.D.b	NA	NA	#WERT!	#WERT!	here															
3.D.c	NA	NA	#WERT!	#WERT!	here															
3.D.d	NA	NA	#WERT!	#WERT!	here															
3.D.e	7,692	7,692	0,00	0,00%	here															
3.D.f	NA	NA	#WERT!	#WERT!	here															
3.F	NO	NO	#WERT!	#WERT!																
3.I	NA	NA	#WERT!	#WERT!	here															
NFR 5 - Waste	38,45	38,45	0,00	0,00%																
NFR 6 - Other	NA																			

Changes within the **National Total reported for 2018 (-15.31 kt | -1.34 %)** are dominated by decreased emission estimates **NFR 3**.

In **NFR 5**, emissions have been re-allocated with no impact on the sector's total emissions. The strongest relative change occurs for **NFR 2.G with minus 50 %**.

Table 2: Changes in emission estimates for 2018

					Submission 2020	Submission 2021	Difference	Reasoning
NFR Code	[kt]			relative	see description and reasoning in:			
NATIONAL TOTAL	1.140,32	1.125,02	-15,31	-1,34%	sub-category chapters			
NFR 1 - Energy	210,09	214,58	4,49	2,14%	sub-category chapters			
1.A.1.a	7,95	8,06	0,11	1,37%	here			
1.A.1.b	0,75	0,90	0,15	19,64%	here			
1.A.1.c	0,32	0,39	0,07	22,37%	here			
1.A.2.a	0,255	0,259	0,004	1,50%	here			
1.A.2.b	0,08	0,08	0,00	2,51%	here			
1.A.2.e	0,02	0,02	0,002	8,50%	here			
1.A.2.g vii	3,63	3,62	-0,01	-0,26%	here			
1.A.2.g viii	6,04	5,65	-0,38	-6,37%	here			
1.A.3.a i(i)	0,79	0,72	-0,06	-8,24%	here			
1.A.3.a ii(i)	0,56	0,49	-0,07	-12,86%	here			
1.A.3.b i	46,43	47,87	1,43	3,09%	here			
1.A.3.b ii	1,57	1,49	-0,09	-5,41%	here			
1.A.3.b iii	3,04	2,96	-0,08	-2,56%	here			
1.A.3.b iv	14,75	15,20	0,45	3,07%	here			
1.A.3.b v	19,73	20,26	0,53	2,67%	here			
1.A.3.c	0,42	0,36	-0,06	-15,42%	here			
1.A.3.d ii	1,08	1,19	0,11	10,50%	here			
1.A.3.e i	0,01	0,01	0,00	0,45%	here			
1.A.4.a i	3,82	3,42	-0,40	-10,52%	here			
1.A.4.a ii	1,14	0,90	-0,24	-21,08%	here			
1.A.4.b i	32,07	34,96	2,89	9,01%	here			
1.A.4.b ii	10,76	10,97	0,21	1,92%	here			
1.A.4.c i	0,79	0,78	-0,01	-1,47%	here			
1.A.4.c ii	9,39	9,45	0,07	0,69%	here			
1.A.4.c iii	0,130	0,134	0,004	2,70%	here			
1.A.5.a	0,06	0,06	0,00	1,28%	here			
1.A.5.b	1,11	1,11	0,00	0,01%	here			
1.B.1.a	0,002	0,006	0,004	260%	here			
1.B.2.a iv	12,27	12,27	0,00	-0,01%				
1.B.2.a v	16,71	16,60	-0,11	-0,66%				
1.B.2.b	4,91	4,89	-0,02	-0,36%				
NFR 2 - IPPU	586,01	584,84	-1,17	-0,20%	sub-category chapters			
2.G	2,25	1,12	-1,13	-50,27%	here			
2.H.1	3,66	3,66	0,00	0,00%	here			
2.H.2	15,78	15,74	-0,04	-0,22%	here			
NFR 3 - Agriculture	324,31	305,68	-18,63	-5,74%	sub-category chapters			
3.B.1.a	169,97	160,81	-9,16	-5,39%	here			
3.B.1.b	101,42	91,95	-9,47	-9,34%	here			

<table border="1"><thead><tr><th>Category</th><th>Absolute change [kt]</th></tr></thead><tbody><tr><td>NATIONAL TOTAL</td><td>-18,00</td></tr><tr><td>Energy</td><td>2,43</td></tr><tr><td>IPPU</td><td>-1,13</td></tr><tr><td>Agriculture</td><td>-19,26</td></tr><tr><td>Waste</td><td>-0,05</td></tr></tbody></table>						Category	Absolute change [kt]	NATIONAL TOTAL	-18,00	Energy	2,43	IPPU	-1,13	Agriculture	-19,26	Waste	-0,05	Submission 2020	Submission 2021	Difference	Reasoning
Category	Absolute change [kt]																				
NATIONAL TOTAL	-18,00																				
Energy	2,43																				
IPPU	-1,13																				
Agriculture	-19,26																				
Waste	-0,05																				
NFR Code	[kt]			relative	see description and reasoning in sub-category chapters																
NATIONAL TOTAL	1.140,32	1.125,02	-15,31	-1,34%	sub-category chapters																
NFR 1 - Energy	210,09	214,58	4,49	2,14%	sub-category chapters																
NFR 5 - Waste	19,91	19,91	0,00	0,00%	sub-category chapters																
5.A	3,99	3,98	-0,01	0,30%	here																
5.D.2	NA	0,01	0,01		here																
NFR 6 - Other	NA																				