

Data quality checks for the update of the EEA EU ETS data viewer

Latest Dataset July 2025



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1. Data quality checks for the update of the EEA EU ETS data viewer

The EU ETS data viewer is updated annually in April, May and July. Before the latest EU ETS data are uploaded, the ETC-CM conducts quality checks to better understand year-on-year changes in the dataset.

This paper outlines the results of the data quality checks and updates made in the EU ETS data viewer. The checks focus primarily on data consistency, particularly the deletion of double installations and the reallocation of main activity codes.

The current dataset was downloaded on 1 July 2025. The comparison dataset is from 5 May 2025. It should be noted that, at the time of data extraction, the compliance cycle for the reporting year may not yet be fully completed. Under the EU ETS, operators must submit verified emissions reports by 31 March and surrender the corresponding allowances by 30 September of the following year.

Timeline

The annual update process starts with the first release in April. These data provide an early indication of submitted emissions reports, but experience shows that not all operators report on time. The May update provides a more complete picture as additional reports and corrections are added. In the past, the July update could be considered final, because the compliance cycle was typically completed by that time. For this reason, the July version has been used for the preparation of related EEA and ETC products, such as the annual EU ETS report. From 2025 onwards, the compliance will only be concluded in September and experience will show if the July dataset can be continued to be considered (close to) final.

Key Findings

Table 0.1 Comparison of the 2025 data sets

DataExtract	1 April 2025	5 May 2025	1 July 2025
DataRows	20 868	21 082	21 406
Stationary	16 580	16 601	16 620
Aircraft operators	1 686	1 686	1 688
Maritime operators	2 602	2 795	3 098
Verified Emissions (2024) [Mt]	1 018	1 141	1 156
Stationary [Mt]	922	1 025	1 030
Aircraft operators [Mt]	56	61	61
Maritime operators [Mt]	39	54	65
Allocated (2024) [M]	525	524	517
Stationary [M]	508	507	500
Aircraft operators [M]	17	17	17
Maritime operators [M]	-	-	-
Surrendered Units (2024) [M]	88	212	330
Stationary [M]	88	206	313
Aircraft operators [M]	0	6	15
Maritime operators [M]	0	0	3

Sources: Union Registry extract 1 July 2025, Union Registry extract 5 May 2025, Union Registry extract 1 April 2025

2. Consistency checks

As part of the analysis of the current dataset, a series of consistency checks were carried out. A key element was the comparison with the previous dataset, particularly to identify any significant changes.

In previous years, the analysis was based on a dataset provided directly by the European Commission (COM). However, this information can now be accessed directly from the Union Registry. Therefore, the current analyses are based on the files available under the “Data Download” section: “Operators Daily” and “Operators Yearly Activity Daily.”

The most important difference compared to the May dataset is the addition of a new activity code: Activity Code 60 – “ETS2 MS Account.” These accounts represent the member states under the ETS2 framework. A total of approximately 550 Mt of CO₂ has been reported under this category. However, these emissions are not yet verified. Member states have been asked to begin reporting preliminary unverified emissions falling under the scope of ETS2. These figures are clearly still incomplete, as the cap for ETS2 is roughly twice as high.

Notably, ETS2 emissions are reported in the same registry as those from ETS1.

Deletion of double installations

No deletion of double installations in July 2025.

Reallocation of main activity codes

Before 2012, in the 1st and 2nd trading period, the EUTL contained information for nine categories of activities for stationary installations. With the start of the 3rd trading period (2013-2020), new activity categories have been introduced resulting in 28 categories for stationary installations to date, some of which correspond to previous categories, while others changed to new ones.

In total, 3 472 installations (21% of all installations), still report old activity codes (see Table 0.2). These are 2 less than in the dataset of April 2025.

Table 0.2 Number of installations with old activity type codes

MAIN_ACTIVITY_TYPE_CODE	Number of installations - July 2020	Number of installations - July 2021	Number of installations - July 2022	Number of installations - July 2023	Number of installations - July 2024	Number of installations - May 2025	Number of installations - July 2025
1	2632	2563	2497	2477	2436	2416	2413
2	38	36	35	35	35	35	35
3	3	3	3	3	3	3	3
4	3	3	3	3	3	3	3
5	44	43	42	42	40	40	40
6	126	121	120	117	116	115	115
7	104	101	97	96	94	93	93
8	543	531	529	524	523	521	521
9	268	262	254	252	248	246	246
99							
Total	3761	3663	3580	3549	3498	3472	3469

Sources: Union Registry extract 1 July 2025 and former extracts, own calculation

Since 2015 the EU ETS data viewer no longer includes old activity codes except for code 99 which will remain, if no other country specific information is available. For the installations reporting an old code, a correction is made. Since 2015 the translation procedure follows the methodology explained in the ETC/ACM document “Attribution of new activity codes for installations with old codes in the EEA’s EU ETS data viewer” (latest version as of April 2016). The result of this methodology has been amended with country specific information. The translation table is publicly available to make the translation of activity codes as transparent as possible.

As highlighted in the methodology document, there is a risk that the number of installations allocated to activity codes 38 to 41 (Production of specific chemicals) is underestimated, because the allocation to these codes is not possible without further detailed knowledge of the activity of single installations. Consequently, there is also a risk that the number of installations allocated to activity code 42 (Production of bulk chemicals) is overestimated.

Looking at verified emissions 2024 (see Table 0.3), emissions of installations with code 42 still increased because of the allocation to new codes (from 30.5 to 31.1 Mt). But it can be considered that due to the inclusion of Member State specific information allocated verified emissions due to the translation process have decreased by a high number of emissions: With the translation of September 2015, verified emissions of sector 42 has been 23 Mt before and 43 Mt after the translation (+20 Mt), whereas the difference has now been reduced to 0.6 Mt for the year 2024.

Similarly, it is not possible to differentiate between the production of primary (code 26) and secondary aluminium (code 27) without more information on single installations. NACE code 24.42 (Aluminium production) has now been completely translated to code 26, leading to possible overestimation and an underestimation in code 27.

In September 2015 11 installations have been translated to code 26, whereas the number of installations which was translated in May 2025 was reduced to 7 (code 26).

The installation FR 956, SK 150 and CZ 73 were relocated from code 20 to code 24 based on information from the Member States as these plants are foremost steel plants.

For further details see Table 0.3:

Table 0.3 Allocation of new activity codes to installation with old codes

	Main activity type code		Final					
MAIN ACTIVITY TYPE CODE	Before Translation		After Translation		Conducted Translation		Percentage of translation to total	
	No of installations	VE 2024	No of installations	VE 2024	No of installations	VE 2024	No of installations	VE 2024
1	2,413	17,990,988						
2	35	7,701,821						
3	3	-						
4	3	-						
5	40	4,471,828						
6	115	2,473,911						
7	93	314,230						
8	521	378,340						
9	246	867,214						
10	1688	61,449,282	1,688	61,449,282	0	0	0%	0%
20	8238	574,786,810	10311	587,704,078	2,073	12,917,268	20%	2%
21	142	94,760,572	175	102,462,393	33	7,701,821	19%	8%
22	19	4,741,462	28	4,741,462	9	0	32%	0%
23	15	1,757,647	15	1,757,647	0	0	0%	0%
24	243	83,837,106	287	93,069,707	44	9,232,601	15%	10%
25	264	8,613,425	301	8,684,438	37	71,013	12%	1%
26	33	6,142,320	40	6,142,320	7	0	18%	0%
27	39	1,118,331	40	1,118,331	1	0	3%	0%
28	88	6,194,551	94	6,194,551	6	0	6%	0%
29	257	88,894,797	338	91,232,339	81	2,337,542	24%	3%
30	276	21,125,524	416	21,488,582	140	363,058	34%	2%
31	378	14,004,770	466	14,316,778	88	312,008	19%	2%
32	1232	8,788,298	1758	9,166,638	526	378,340	30%	4%
33	55	1,606,327	72	1,738,796	17	132,469	24%	8%
34	102	1,215,448	102	1,215,448	0	0	0%	0%
35	179	3,528,907	196	3,670,158	17	141,251	9%	4%
36	604	13,542,559	891	14,374,957	287	832,398	32%	6%
37	18	1,532,788	18	1,532,788	0	0	0%	0%
38	35	2,024,091	35	2,024,091	0	0	0%	0%
39	3	91,736	3	91,736	0	0	0%	0%
40	1	-	1	-	0	0	0%	0%
41	30	13,770,951	31	13,770,951	1	0	3%	0%
42	376	30,501,202	471	31,070,890	95	569,688	20%	2%
43	72	7,959,972	77	7,959,972	5	0	6%	0%
44	15	3,421,863	15	3,421,863	0	0	0%	0%
45	3	-	3	-	0	0	0%	0%
50	3098	64,890,685	3098	64,890,685	0	0	0%	0%
99	434	1,508,636	436	717,511	2	-791,125	0%	-110%
Group 1-9	3,469	34,198,332	-	-				
Group 10-99	17,937	1,121,810,060	21,406	1,156,008,392				
Total	21,406	1,156,008,392	21,406	1,156,008,392	3,469	34,198,332	16%	3%

Note: The total number of translations given in the table (3 472) is not the absolute number of translations, because a small amount of other translations took place in the activity type codes 20-99.

Activity Code 50 was introduced in 2024 and includes the maritime operators.

Sources: Union Registry extract 1 July 2025

3. Main changes in EU ETS viewer data between April 2025 and May 2025

Number of entities included in the scheme

The number of stationary installations, aviation and maritime operators by country is shown in the following table:

Table 0.4 Number of entities by country

MS	01. Jul 20	01. Jul 21	01. Jul 22	05. July 23	02. Jul 24	05. May 25	01. July 25	Difference latest two datasets
AT	296	297	297	298	300	305	305	0
BE	499	505	524	526	547	681	684	3
BG	174	174	177	178	183	202	208	6
CY	29	29	29	29	38	97	99	2
CZ	469	470	472	473	473	475	475	0
DE	2785	2794	2834	2856	2879	3501	3576	75
DK	465	466	470	473	481	510	515	5
EE	66	66	66	68	76	82	84	2
ES	1515	1530	1546	1558	1615	2047	2147	100
FI	738	745	754	759	789	802	803	1
FR	1749	1766	1850	1942	1978	2065	2074	9
GB	2021	2027	1937	1853	1852	1847	1846	-1
GR	217	220	225	239	663	894	921	27
HR	62	64	66	66	72	75	79	4
HU	304	307	313	315	318	320	320	0
IE	235	239	249	253	261	281	284	3
IS	44	44	46	46	46	49	49	0
IT	1643	1648	1665	1683	1767	1872	1892	20
LI	2	2	2	2	2	2	2	0
LT	129	130	130	130	135	136	136	0
LU	34	34	34	35	46	46	46	0
LV	120	120	120	120	127	132	132	0
MT	15	16	18	25	33	67	83	16
NL	667	677	691	695	717	942	965	23
NO	191	194	201	203	252	348	360	12
PL	1084	1086	1095	1101	1110	1124	1130	6
PT	371	371	373	373	376	401	409	8
RO	304	307	311	314	318	352	352	0
SE	976	982	992	1007	1040	1068	1070	2
SI	106	106	106	107	108	124	125	1
SK	223	225	226	227	228	229	229	0
XI		6	6	7	6	6	6	0
Total	17533	17647	17825	17961	18836	21082	21406	324

Sources: Union Registry extract 1 July 2025 and former extracts, own calculation

As shown in Table 0.4, the May 2025 dataset includes 324 more entities than the May 2025 dataset. 303 of them do have the Activity Code 50 (maritime transport).

Verified emissions (stationary installations)

In the following table, data on verified emission is compared between the datasets from April 2025 and May 2025, just for stationary data. Differences are shown as percentages, calculated from the difference related to latest data.

Table 0.5 Changes in VE between datasets (stationary installations)

MS	Percentages related to last available data (+ => increase)								
	total 1st trading period	total 2nd trading period	total 3rd trading period	total 4th trading period	2020	2021	2022	2023	2024
AT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
BE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BG	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	8.9%
CY	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CZ	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
DE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
DK	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
EE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ES	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
FI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
FR	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	2.5%
GB	0.0%	0.0%	0.0%		0.0%				
GR	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
HR			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
HU	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
IE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
IS			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
IT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LI		0.0%	0.0%		0.0%				
LT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LU	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%
LV	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
MT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%
NL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
NO		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PL	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.9%
PT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
RO	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SK	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
XI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.4%

Note: Calculated as difference between April 2025 and May 2025 data
Purple: increase, light orange: decrease, green: zero difference.

Sources: Union Registry extract 1 July 2025 and former extracts, own calculation

In general, there are no changes for the first and second trading period and minor changes for the third trading period. Due to incomplete data in May for 2024, the data shows some differences for the fourth trading period.

Free allocation to existing installations from 2005 to 2024 (stationary installations)

In the same structure, the data on free allowances to existing installations allocated under Article 10a(1) has been compared:

Table 0.6 Changes in free allocations between datasets (stationary installations)

MS	Percentages related to last available data (+ => increase)								
	total 1st trading period	total 2nd trading period	total 3rd trading period	total 4th trading period	2020	2021	2022	2023	2024
AT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BE	0.0%	0.0%	0.0%	-1.6%	0.0%	0.0%	0.0%	-1.2%	-3.1%
BG		0.0%	0.0%	-0.5%	0.0%	-3.1%	0.0%	0.0%	0.4%
CY		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CZ	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
DE	0.0%	0.0%	0.0%	-0.5%	0.0%	0.0%	0.0%	0.0%	-1.4%
DK	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	-0.1%
EE	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.1%
ES	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.2%	0.0%
FI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
FR	0.0%	0.0%	0.0%	-2.2%	0.0%	0.0%	0.0%	0.0%	-5.5%
GB	0.0%	0.0%	0.0%		0.0%				
GR	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
HR			0.0%	-0.4%	0.0%	0.0%	0.0%	0.0%	-0.1%
HU	0.0%	0.0%	0.0%	-0.5%	0.0%	0.0%	0.0%	0.0%	0.1%
IE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
IS			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
IT	0.0%	0.0%	0.0%	-1.6%	0.0%	0.0%	0.0%	0.2%	-2.8%
LI		0.0%	0.0%		0.0%				
LT	0.0%	0.0%	0.0%	-3.4%	0.0%	0.0%	0.0%	0.0%	-9.1%
LU	0.0%	0.0%	0.0%	-3.1%	0.0%	0.0%	0.0%	0.0%	0.0%
LV	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
MT		0.0%							
NL	0.0%	0.0%	0.0%	-0.9%	0.0%	0.0%	0.0%	0.0%	-2.0%
NO		0.0%	0.0%	0.2%	0.0%	0.2%	0.1%	0.2%	0.2%
PL	0.0%	0.0%	0.0%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.1%
PT	0.0%	0.0%	0.0%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
RO	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.2%	0.2%
SE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SK	0.0%	0.0%	0.0%	-0.3%	0.0%	0.0%	0.0%	0.0%	-0.1%
XI	0.0%	0.0%	0.0%		0.0%				
Total	0.0%	0.0%	0.0%	-0.7%	0.0%	0.0%	0.0%	0.0%	-1.5%

Note: Calculated as difference between April 2025 and May 2025 data
Purples: increase, light orange: decrease, green: zero difference.

Sources: Union Registry extract 1 July 2025 and former extracts, own calculation

In general, there are no changes for the first, second and third trading period. There are minor changes in the fourth trading period.

Surrendered units from 2005 to 2024 (stationary installations)

The surrendered units must be submitted by September 30th each year. As the data is still very incomplete at this stage, it is not being shown yet.

Aviation

For aviation a comparison of verified emissions, allocation units have been conducted together. Changes between datasets are due to incomplete data in May 2025.

Table 0.7 Changes in VE, free allocation and surrendered units to aviation operators

MS	Percentages related to last available data (+ => increase)									
	VERIFIED_E MISSIONS_2020	VERIFIED_E MISSIONS_2021	VERIFIED_E MISSIONS_2022	VERIFIED_E MISSIONS_2023	VERIFIED_E MISSIONS_2024	Allocation 2020	Allocation 2021	Allocation 2022	Allocation 2023	Allocation 2024
AT	0.0%	0.0%	0.0%	0.0%	-0.5%	0.0%	0.0%	0.0%	0.0%	0.0%
BE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BG	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CY	0.0%	0.0%	0.0%	0.0%	0.0%					0.0%
CZ	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
DE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
DK	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
EE		0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%
ES	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
FI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
FR	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
GR	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
HR	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
HU	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
IE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
IS	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
IT	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
LT	0.0%	0.0%	0.0%	0.0%	0.0%					0.0%
LU	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LV	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
MT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
NL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
NO	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
RO	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SI			0.0%	0.0%	0.0%					
SK		0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%
Total	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Note: Calculated as difference between April 2025 and May 2025 data
Purple: increase, light orange: decrease, green: zero difference.

Sources: Union Registry extract 1 July 2025 and former extracts, own calculatio

