

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

Latest Dataset September 2026



Authors:

Christian Nissen (Öko-Institut)



Contents

Contents	1
List of Tables	2
1. Data quality checks for the update of the EEA EU ETS data viewer	3
Key Findings	4
2. Consistency checks	5
Deletion of double installations	Error! Bookmark not defined.
Reallocation of main activity codes	5
3. Main changes in EU ETS viewer data between April 2025 and May 2025	8
Number of entities included in the scheme	8
Verified emissions (stationary installations)	9
Free allocation to existing installations from 2005 to 2024 (stationary installations)	10
Surrendered units from 2005 to 2024 (stationary installations)	11
Aviation	11

List of Tables

Table 1.1	Comparison of the 2025/2026 data sets.....	4
Table 2.1	Number of installations with old activity type codes	5
Table 2.2	Allocation of new activity codes to installation with old codes.....	7
Table 3.1	Number of entities by country	8
Table 3.2	Changes in VE between datasets (stationary installations).....	10
Table 3.3	Changes in free allocations between datasets (stationary installations)	11
Table 3.4	Changes in VE, free allocation and surrendered units to aviation operators.....	12
Table 3.2	Changes in VE between datasets (stationary installations).....	14
Table 4.1	Verified emissions (Mt CO2 equivalent) by Member State, sector, and year.....	16

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

The EU ETS data viewer offers easy access to emission trading data from the European Commission's Union Registry website (previously European Union Transaction Log, EUTL). The Union Registry is the Commission's online database that helps to ensure accurate accounting of allowances issued under the EU ETS. The EU ETS data viewer provides aggregated data by country, by main activity type and by year on the verified emissions, allowances and surrendered units. The data reported under the EU emission trading system covers more than 16000 stationary installations, 1600 aircraft operators and 2600 maritime operators.

The EEA EU ETS data viewer is updated multiple times per year. Before the latest EU ETS data are uploaded, the ETC-CM conducts quality checks to better understand changes between dataset versions. 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. From 2026 onwards, a gap-filling procedure is applied to account for the effects of installations that have not yet submitted their emissions reports at the time of data extraction, providing a more complete picture of total emissions even in early dataset versions.

The current dataset was downloaded on 4 September 2026. The comparison dataset is from July 2026. It should be noted that, at the time of data extraction, the compliance cycle for the reporting year is not yet completed. If more significant changes are identified in the future, additional updates of the data viewer may be carried out.

Timeline of the process

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. Further updates are scheduled for July and September. From 2025 onwards, an additional update will be released after the conclusion of the compliance cycle in October. This change reflects the fact that, unlike in previous years, compliance is no longer completed by July. As a result, the completeness of the July dataset can no longer be assumed, and the September or post-compliance October dataset will be used as the basis for related EEA and ETC products, such as the annual EU ETS report.

Key Findings

Table 0.1 Comparison of the 2026 data sets

DataExtract	9 April 2026	1 July 2026	3 Sept 2026
DataRows	22 412	22 627	22 746
Stationary	16 715	16 774	16 763
Aircraft operators	1 704	1 712	1 716
Maritime operators	3 993	4 141	4 267
Verified Emissions (2025) [Mt]	1 077	1 148	1154
Stationary [Mt]	963	1 009	1011
Aircraft operators [Mt]	57	58	59
Maritime operators [Mt]	57	81	84
Allocated (2025) [M]	492	491	492
Stationary [M]	482	481	481
Aircraft operators [M]	11	11	11
Maritime operators [M]	-	-	-
Surrendered Units (2025) [M]	94	322	494
Stationary [M]	92	301	444
Aircraft operators [M]	1	13	26
Maritime operators [M]	2	7	23

Sources: Union Registry extract 9 April 2026, Union Registry extract 1 July 2026, Union Registry extract 4 September 2026

2. Consistency checks

As part of the previous update, a series of consistency checks were carried out, including a comparison with the preceding dataset to identify any significant changes between versions.

For the current update, the dataset downloaded on 4 September 2026 was compared to the 1 July 2026 dataset to track changes and assess the current state of data completeness.

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."

Regarding ETS2: In the September 2025 dataset, a new activity code had been introduced, Activity Code 60 "ETS2 MS Account", representing member state accounts under the ETS2 framework, with approximately 974 Mt of CO₂ reported as preliminary unverified emissions. However, these entries have since been removed from the Union Registry. The current September 2026 dataset therefore contains no ETS2 data, and Activity Code 60 is no longer present.

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, 3,450 installations (approximately 21% of all installations) still report old activity codes (see Table 2.1). This is one more than in the July 2026 dataset. The installation CZ108 was reattributed from Activity Code 36 back to 1. It is unclear why this was done.

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 - November 2025	Number of installations - July 2026	Number of installations - September 2026
1	2632	2563	2497	2477	2436	2408	2399	2400
2	38	36	35	35	35	35	35	35
3	3	3	3	3	3	3	3	3
4	3	3	3	3	3	3	3	3
5	44	43	42	42	40	40	40	40
6	126	121	120	117	116	115	115	115
7	104	101	97	96	94	93	90	90
8	543	531	529	524	523	521	520	520
9	268	262	254	252	248	246	244	244
Total	3761	3663	3580	3549	3498	3464	3449	3450

Sources: Union Registry extract 4 September 2026 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 2025 (see Table 2.2), the difference in emissions for installations with code 42 due to the translation process has been reduced to approximately 0.01 Mt, with emissions increasing marginally from 29.6 Mt before to 29.6 Mt after translation, affecting 94 installations.

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 been completely translated to code 26, leading to a possible overestimation in code 26 and an underestimation in code 27.

For the September 2026 dataset, 7 installations were translated to code 26, consistent with the previous update.

The installations 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 2.2.

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

MAIN ACTIVITY TYPE CODE	Before Translation		After Translation		Conducted Translation		Percentage of translation to	
	No of installations	VE 2025	No of installations	VE 2025	No of installations	VE 2025	No of installations	VE 2025
1	2,400	14,435,005						
2	35	8,323,786						
3	3	-						
4	3	-						
5	40	4,686,582						
6	115	2,597,413						
7	90	252,708						
8	520	391,832						
9	244	611,622						
10	1716	58,551,013	1,716	58,551,013	-	-	0%	0%
20	8330	568,810,488	10391	578,517,688	2061	9,707,200	20%	2%
21	142	94,800,317	175	103,124,103	33	8,323,786	19%	8%
22	19	4,458,522	28	4,458,522	9	-	32%	0%
23	15	1,544,717	15	1,544,717	0	-	0%	0%
24	244	79,315,690	288	88,465,960	44	9,150,270	15%	10%
25	266	8,822,689	303	8,894,851	37	72,162	12%	1%
26	33	6,379,347	40	6,379,347	7	-	18%	0%
27	39	1,097,208	40	1,097,208	1	-	3%	0%
28	88	5,856,268	94	5,856,268	6	-	6%	0%
29	257	85,571,219	338	88,033,883	81	2,462,664	24%	3%
30	277	20,242,774	417	20,570,404	140	327,630	34%	2%
31	382	12,902,754	468	13,181,329	86	278,575	18%	2%
32	1235	9,048,561	1760	9,440,393	525	391,832	30%	4%
33	57	1,620,164	73	1,723,707	16	103,543	22%	6%
34	122	1,581,954	122	1,581,954	0	-	0%	0%
35	174	3,204,328	191	3,274,061	17	69,733	9%	2%
36	614	13,395,921	899	14,036,322	285	640,401	32%	5%
37	18	1,383,021	18	1,383,021	0	-	0%	0%
38	36	1,812,967	36	1,812,967	0	-	0%	0%
39	3	83,210	3	83,210	0	-	0%	0%
40	1	-	1	-	0	-	0%	0%
41	30	13,556,524	31	13,556,524	1	-	3%	0%
42	390	29,856,426	484	29,866,056	94	9,630	19%	0%
43	83	7,803,337	88	7,803,337	5	-	6%	0%
44	15	5,966,213	15	5,966,213	0	-	0%	0%
45	5	91	5	91	0	-	0%	0%
50	4267	84,002,573	4267	84,002,573	0	-	0%	0%
99	438	938,108	440	699,630	2	238,478	0%	-34%
Group 1-9	3,450	31,298,948	-	-				
Group 10-99	19,296	1,122,606,404	22,746	1,153,905,352				
Total	22,746	1,153,905,352	22,746	1,153,905,352	3,450	31,298,948	15%	3%

Note: The total number of translations given in the table (3 450) 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 4 September 2026

3. Main changes in EU ETS viewer data between April 2026 and July 2026

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	12. Nov 25	01. July 26	04. Sep 26	Difference latest two datasets
AT	296	297	297	298	300	305	305	305	0
BE	499	505	524	526	547	690	719	723	4
BG	174	174	177	178	183	222	234	238	4
CY	29	29	29	29	38	105	108	109	1
CZ	469	470	472	473	473	478	485	483	-2
DE	2785	2794	2834	2856	2879	3687	3761	3779	18
DK	465	466	470	473	481	518	522	523	1
EE	66	66	66	68	76	86	90	90	0
ES	1515	1530	1546	1558	1615	2331	2412	2440	28
FI	738	745	754	759	789	804	808	808	0
FR	1749	1766	1850	1942	1978	2107	2133	2145	12
GB	2021	2027	1937	1853	1852	1845	1843	1843	0
GR	217	220	225	239	663	979	1033	1046	13
HR	62	64	66	66	72	85	86	87	1
HU	304	307	313	315	318	321	322	324	2
IE	235	239	249	253	261	286	297	300	3
IS	44	44	46	46	46	54	55	55	0
IT	1643	1648	1665	1683	1767	1933	1981	1969	-12
LI	2	2	2	2	2	2	2	2	0
LT	129	130	130	130	135	137	141	138	-3
LU	34	34	34	35	46	46	46	46	0
LV	120	120	120	120	127	133	137	138	1
MT	15	16	18	25	33	91	104	104	0
NL	667	677	691	695	717	1106	1168	1202	34
NO	191	194	201	203	252	382	398	401	3
PL	1084	1086	1095	1101	1110	1141	1152	1156	4
PT	371	371	373	373	376	422	425	427	2
RO	304	307	311	314	318	414	424	429	5
SE	976	982	992	1007	1040	1070	1074	1073	-1
SI	106	106	106	107	108	127	127	127	0
SK	223	225	226	227	228	229	229	230	1
XI		6	6	7	6	6	6	6	0
Total	17533	17647	17825	17961	18836	22142	22627	22746	270

Sources: Union Registry extract 4 September 2026 and former extracts, own calculation

As shown in Table 0.4, the July 2026 dataset includes 119 more entities than the April 2026 dataset.

In 2025, the EU ETS registry recorded 505 new entrants and 581 closures, resulting in a net reduction of 76 installations. The majority of new entrants are listed under activity code 50 (maritime, 325 out of 414), reflecting the inclusion of maritime operators following the extension of the EU ETS to the maritime sector. The remaining new entrants are distributed across other activity codes.

The closure figures are dominated by Sweden (484 closures). This reflects small district heating installations that Sweden had previously opted into ETS1 despite being below the 20 MW threshold, and

which have now been closed in the registry as they will be covered under ETS2 from 2027 onwards. Excluding Sweden, total closures amount to 81, in line with previous years.

Table 3.2 EU ETS registry changes 2025 by member state

MS	New Entrants 2025	Closures 2025	Difference
AT	0	0	0
BE	33	7	26
BG	10	6	4
CY	1	0	1
CZ	5	5	0
DE	78	4	74
DK	6	15	-9
EE	2	0	2
ES	96	12	84
FI	0	0	0
FR	30	2	28
GB	0	0	0
GR	62	4	58
HR	1	0	1
HU	2	5	-3
IE	9	1	8
IS	3	0	3
IT	27	2	25
LI	0	0	0
LT	2	4	-2
LU	0	0	0
LV	5	7	-2
MT	13	5	8
NL	77	7	70
NO	17	2	15
PL	9	0	9
PT	4	0	4
RO	9	2	7
SE	4	484	-480
SI	0	1	-1
SK	0	5	-5
XI	0	1	-1
Total	505	581	-76

Sources: Union Registry extract 4 September 2026 and former extracts, own calculation

Verified emissions (stationary installations)

In the following table, data on verified emission is compared between the datasets from July 2026 and September 2026, 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	2025
AT	0.0%	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%	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%	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%	-0.2%
EE	0.0%	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%	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%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
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%	0.0%
HR			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
HU	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0%
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%
IT	0.0%	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%	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%
PL	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%
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%	0.2%	0.1%	0.2%	0.2%	0.1%	0.2%	0.0%	0.0%
SI	0.0%	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%	0.0%
XI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%
Total	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%

Note: Calculated as difference between July and September 2026 data
 Purple: increase, light orange: decrease, green: zero difference.
 Due to rounding to one decimal place, some values displayed as 0.0% may still contain very small underlying changes. Cell colours reflect the direction of these unrounded changes.

Sources: Union Registry extract 4 September 2026 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.

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	2025
AT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
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%
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%	0.2%	0.0%	0.0%	0.0%	0.0%	0.6%	0.7%
DE	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
DK	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.3%	0.5%	0.8%
EE	0.0%	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%	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%
GB	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%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%
HU	0.0%	0.0%	0.0%	0.7%	0.0%	0.0%	0.1%	0.9%	1.3%	1.4%
IE	0.0%	0.0%	0.0%	0.1%	0.0%	-0.1%	0.0%	-0.1%	0.4%	0.5%
IS			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
IT	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.1%	0.5%	0.5%
LI		0.0%	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%	-0.3%
LU	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.2%	0.2%	0.2%
LV	0.0%	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%	0.0%	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%
PL	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.4%	0.4%
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%	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%	0.0%
XI	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%	0.1%	0.1%

Note: Calculated as difference between July and September 2026 data
 Purple: increase, light orange: decrease, green: zero difference.
 Due to rounding to one decimal place, some values displayed as 0.0% may still contain very small underlying changes. Cell colours reflect the direction of these unrounded changes.

Sources: Union Registry extract 4 September 2026 and former extracts, own calculation

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

Surrendered units from 2005 to 2025 (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.

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

MS	VERIFIED_E MISSIONS_2020	VERIFIED_E MISSIONS_2021	VERIFIED_E MISSIONS_2022	VERIFIED_E MISSIONS_2023	VERIFIED_E MISSIONS_2024	VERIFIED_E MISSIONS_2025	Allocation 2020	Allocation 2021	Allocation 2022	Allocation 2023	Allocation 2024	Allocation 2025
AT	0.0%	0.0%	0.0%	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%	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%	0.0%	0.0%
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%	0.0%	0.0%	4.3%
DE	0.0%	0.0%	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%	0.0%	0.0%
EE		0.0%	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%	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%	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%	0.0%	-0.7%
GR	0.0%	0.0%	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%	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%	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%	0.0%	0.0%
IS	0.0%	0.0%	0.0%	0.0%	0.0%	24.9%	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%	0.0%	0.0%	0.0%
LT	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%	0.0%	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%	0.0%	0.0%
MT	0.0%	0.0%	0.0%	0.0%	0.0%	7.7%	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%	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%	0.0%	0.0%
PL	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	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%	0.0%	0.0%
RO	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SE	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SI			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%	0.0%
Total	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Note: Calculated as difference between July and September 2026 data
 Purple: increase, light orange: decrease, green: zero difference.
 Due to rounding to one decimal place, some values displayed as 0.0% may still contain very small underlying changes. Cell colours reflect the direction of these unrounded changes.

Sources: Union Registry extract 4 September 2026 and former extracts, own calculation

Verified emissions (Maritime)

In the following table, data on verified emission is compared between the datasets from July 2026 and September 2026 for maritime data. Differences are shown as percentages, calculated from the difference related to latest data.

Table 0.8 Changes in VE between datasets (stationary installations)

MS	Updated to last available data	
	VERIFIED_E MISSIONS_ 2024	VERIFIED_E MISSIONS_ 2025
BE	0.0%	0.1%
BG	0.0%	7.0%
CY	0.0%	0.0%
DE	0.0%	5.9%
DK	0.0%	6.3%
EE	0.0%	0.0%
ES	0.0%	4.5%
FI	0.0%	0.0%
FR	0.0%	1.1%
GR	0.1%	2.4%
HR	1.8%	0.0%
IE	0.0%	1.3%
IS	0.0%	0.0%
IT	0.0%	1.4%
LT	0.0%	0.0%
LU	0.0%	0.0%
LV	0.0%	0.0%
MT	0.0%	0.9%
NL	0.2%	14.4%
NO	0.8%	8.5%
PL	0.0%	0.2%
PT	0.0%	22.8%
RO	32.3%	255.3%
SE	0.0%	0.1%
SI	0.0%	0.0%
Total	0.1%	4.1%

Note: Calculated as difference between July and September 2026 data
 Purple: increase, light orange: decrease, green: zero difference.
 Due to rounding to one decimal place, some values displayed as 0.0% may still contain very small underlying changes. Cell colours reflect the direction of these unrounded changes.

Sources: Union Registry extract 4 September 2026 and former extracts, own calculation

4. Gap-filling of Verified Emissions for the Latest Reporting Year

The EU ETS Registry publishes verified emission data on a rolling basis. When working with an April snapshot, a share of installations has not yet submitted their verified emissions for the most recent reporting year. To ensure comparability and completeness, a gap-filling procedure is applied to estimate the missing values.

Methodology

The gap-filling is performed at the installation level and distinguishes three sectors: Aviation (Activity Type Code 10), Maritime (Activity Type Code 50), and Stationary installations (all other codes).

For each sector, a sector-specific reduction factor is derived from all active installations that have reported values in both the previous year (2024) and the current year (2025):

$$\text{Factor} = \Sigma \text{Emissions}(2025, \text{reported}) / \Sigma \text{Emissions}(2024, \text{reported})$$

Decommissioned installations, identified by a non-empty YEAR_OF_LAST_EMISSIONS field earlier than the current reporting year, are excluded from both the factor calculation and the gap-filling. For each active installation without a 2025 value, the expected emission is estimated as:

$$\text{Emissions}(2025, \text{expected}) = \text{Emissions}(2024) \times \text{Sector Factor}$$

Results by Member State

Important note on gap-filled estimates

The Gapfilled 2025 values presented in this section are estimates based on a statistical extrapolation and do not represent officially reported data. They are intended solely to provide an early indication of emission trends before the reporting cycle is complete. The actual verified emissions for 2025 may differ, as they depend on the individual reporting of each installation. The gap-filling should therefore be interpreted as a working assumption to enable timely analysis, not as a forecast or projection of final outcomes.

Table 4.1 shows verified emissions by Member State and sector. For 2025, both the emissions already reported ("Reported 2025") and the gap-filled total ("Gapfilled 2025") are shown. The difference between the two reflects installations that were active in 2024 but had not yet submitted their 2025 verified emissions at the time of the data snapshot.

Table 0.1 Verified emissions (Mt CO₂ equivalent) by Member State, sector, and year

MS	Total ETS			Stationary			Aviation			Maritime		
	Reported	Reported	Gapfilled	Reported	Reported	Gapfilled	Reported	Reported	Gapfilled	Reported	Reported	Gapfilled
	2024	2025	2025	2024	2025	2025	2024	2025	2025	2024	2025	2025
AT	27	29	29	24	26	26	3	4	4			
BE	39	39	39	36	36	36	1	1	1	2	2	2
BG	19	20	20	19	20	20	0	0	0	0	0	0
CY	11	11	11	4	4	4	0	0	0	7	6	7
CZ	41	40	40	41	40	40	0	0	0			
DE	293	281	284	273	264	265	9	9	9	11	9	10
DK	15	12	14	8	6	7	1	1	1	5	6	6
EE	5	5	5	4	4	4	0	0	0	0	0	0
ES	99	99	100	77	78	78	9	9	9	13	12	13
FI	16	15	15	13	12	12	1	1	1	2	2	2
FR	73	66	70	64	61	61	3	0	3	6	5	6
GR	44	42	43	27	26	26	1	1	1	16	15	16
HR	6	6	6	6	6	6	0	0	0	0	0	0
HU	14	13	13	13	11	11	2	2	2			
IE	25	25	25	11	11	11	13	13	13	1	1	1
IS	3	2	2	2	2	2	1	1	1	0	0	0
IT	116	115	115	101	101	101	3	3	3	12	11	11
LI	0	0	0	0	0	0						
LT	5	5	5	5	5	5	0	0	0	0	0	0
LU	2	2	2	1	1	1	0	0	0	0	0	0
LV	2	2	2	2	2	2	1	1	1	0	0	0
MT	3	3	3	1	1	1	2	2	2	0	1	1
NL	70	71	72	60	62	62	3	3	3	7	7	7
NO	26	25	26	20	21	21	1	1	1	4	4	4
PL	151	144	146	149	142	144	1	1	1	1	1	1
PT	13	13	13	11	11	11	1	1	1	1	0	0
RO	24	22	23	23	21	22	0	0	0	0	0	0
SE	21	21	21	17	16	16	3	3	3	1	1	1
SI	5	4	4	5	4	4	0	0	0	0	0	0
SK	15	15	15	15	15	15	0	0	0			
XI	2	2	2	2	2	2						
SUM ETS	1186	1148	1165	1034	1009	1014	62	59	62	91	84	89
SUM EU27	1155	1118	1134	1009	985	990	60	57	60	86	80	85

Note: Reported 2025 refers to verified emissions as submitted by entities at the time of the April 2026 data snapshot. Gapfilled 2025 includes estimated values for entities that were active in 2024 but had not yet reported at the time of the snapshot, derived by applying a sector-specific reduction factor to their 2024 emissions. Empty cells indicate that no entities of the respective sector are registered in that Member State.

Sources: Union Registry extract 4 September 2026 and former extracts, own calculation

At ETS level, reported verified emissions sum to 1 148 Mt CO₂-eq for 2025 (same as previous dataset) at the time of the snapshot, compared to 1 186 Mt in 2024. After gap-filling, the estimated total rises to 1 165 Mt, suggesting that a substantial share of the apparent decline reflects incomplete reporting rather than actual closures.

