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Aviation Emissions Report

May 2026

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Emissions analysis for largest markets - May 26 vs prior years

25 largest markets by total emissions

Date / Origin Country	May 2019 Total CO2 (Tonnes)	May 2025 Total CO2 (Tonnes)	May 2026 Total CO2 (Tonnes)
United States	15,818,748	15,643,548	15,400,699
China	7,897,630	8,095,700	7,855,391
United Kingdom, UK	3,027,571	2,944,534	2,882,830
Japan	2,376,651	2,237,546	2,178,355
Spain and Canary Islands	1,756,171	1,962,709	2,042,261
India	1,755,552	1,998,903	2,004,484
Germany	2,142,509	1,913,809	1,819,782
Australia	1,655,310	1,586,204	1,668,299
Canada	1,575,306	1,570,863	1,588,921
France	1,673,448	1,608,075	1,582,882
Turkey	1,190,377	1,530,664	1,501,492
United Arab Emirates	1,680,447	2,111,937	1,500,836
Italy	1,187,200	1,324,360	1,405,149
Russian Federation	1,629,031	1,334,126	1,321,196
Brazil	1,251,492	1,312,237	1,314,723
Republic of Korea	1,185,794	1,060,828	1,076,239
Mexico	986,235	1,032,872	985,191
Singapore	1,006,653	1,002,523	966,599
Thailand	1,147,170	960,708	903,072
Indonesia	1,080,586	1,008,118	875,225
Hong Kong	1,067,913	752,106	790,361
Netherlands	836,988	780,458	786,113
Saudi Arabia	736,569	779,603	678,073
Chinese Taipei	608,285	616,591	627,230
Malaysia	663,811	620,486	602,750

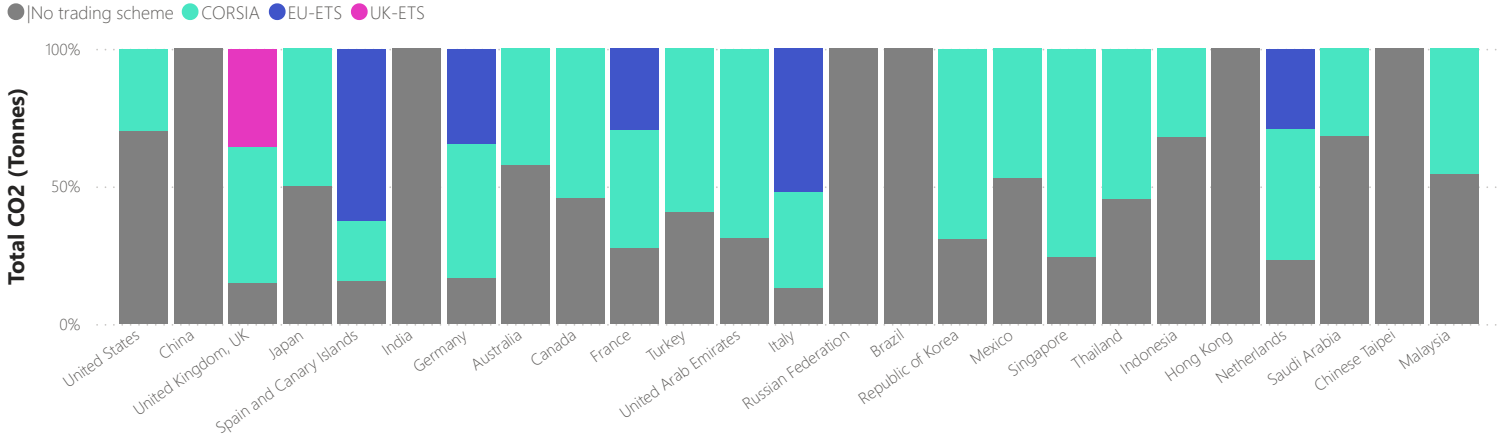
Change in Emissions - Current month vs prior years

Origin Country	This year vs last year	This year vs 2019
United States	-2%	-3%
China	-3%	-1%
United Kingdom, UK	-2%	-5%
Japan	-3%	-8%
Spain and Canary Islands	4%	16%
India	0%	14%
Germany	-5%	-15%
Australia	5%	1%
Canada	1%	1%
France	-2%	-5%
Turkey	-2%	26%
United Arab Emirates	-29%	-11%
Italy	6%	18%
Russian Federation	-1%	-19%
Brazil	0%	5%
Republic of Korea	1%	-9%
Mexico	-5%	-0%
Singapore	-4%	-4%
Thailand	-6%	-21%
Indonesia	-13%	-19%
Hong Kong	5%	-26%
Netherlands	1%	-6%
Saudi Arabia	-13%	-8%
Chinese Taipei	2%	3%
Malaysia	-3%	-9%

Percent of Emissions covered by Compliance Programmes

Origin Country	May 2019 % covered	May 2025 % covered	May 2026 % covered
United States	-	30.15%	29.71%
China	-	-	-
United Kingdom, UK	34.56%	86.34%	84.89%
Japan	-	47.85%	49.78%
Spain and Canary Islands	63.08%	85.61%	84.26%
India	-	-	-
Germany	35.27%	84.80%	83.16%
Australia	-	50.79%	42.25%
Canada	-	55.14%	54.27%
France	30.58%	72.35%	72.39%
Turkey	-	60.93%	59.34%
United Arab Emirates	-	70.54%	68.66%
Italy	51.98%	87.07%	86.65%
Russian Federation	-	-	-
Brazil	-	-	-
Republic of Korea	-	68.00%	68.91%
Mexico	-	46.36%	46.90%
Singapore	-	75.97%	75.54%
Thailand	-	54.25%	54.41%
Indonesia	-	35.43%	31.99%
Hong Kong	-	-	-
Netherlands	26.47%	78.95%	76.56%
Saudi Arabia	-	37.64%	31.64%
Chinese Taipei	-	-	-
Malaysia	-	45.53%	45.43%

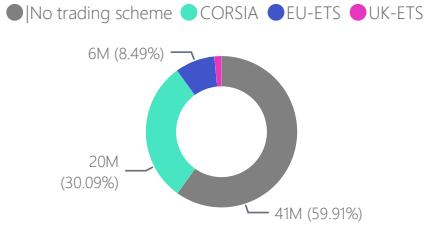
25 largest markets - emissions by Compliance Programme (current month)



Global emissions (tonnes)

68M

Emissions by compliance programme



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Emissions analysis for largest markets - YTD to May 26 vs prior years

25 largest markets by total emissions

YTD Period / Origin Country	YTD 2019 Total CO2 (Tonnes)	YTD Last Year Total CO2 (Tonnes)	YTD This Year Total CO2 (Tonnes)
United States	73,604,284	72,460,020	71,904,414
China	38,472,152	40,113,195	40,868,376
United Kingdom, UK	13,472,731	12,733,523	12,628,780
Japan	11,436,025	10,839,900	10,654,217
India	9,051,626	9,819,702	9,817,708
Australia	8,618,539	8,237,604	9,107,069
Spain and Canary Islands	7,547,675	8,516,377	8,755,741
United Arab Emirates	9,366,707	10,413,464	8,672,532
Germany	9,630,637	8,148,652	7,936,128
Canada	7,418,335	7,170,178	7,237,611
France	7,687,410	7,135,900	7,146,151
Brazil	6,597,965	6,613,943	6,845,711
Turkey	5,034,248	6,466,603	6,604,565
Russian Federation	7,233,356	5,986,700	6,078,205
Thailand	6,432,198	5,527,619	5,618,369
Italy	4,949,687	5,254,490	5,496,996
Mexico	5,002,346	5,449,982	5,374,135
Republic of Korea	5,669,883	5,256,152	5,327,701
Singapore	5,022,642	4,930,002	4,900,196
Indonesia	5,412,477	4,833,332	4,621,494
Saudi Arabia	3,585,514	4,244,618	4,197,372
Hong Kong	5,310,980	3,666,046	3,968,423
Qatar	3,887,686	4,417,050	3,649,031
Netherlands	3,785,604	3,509,436	3,542,022
Vietnam	2,796,745	3,118,947	3,391,454

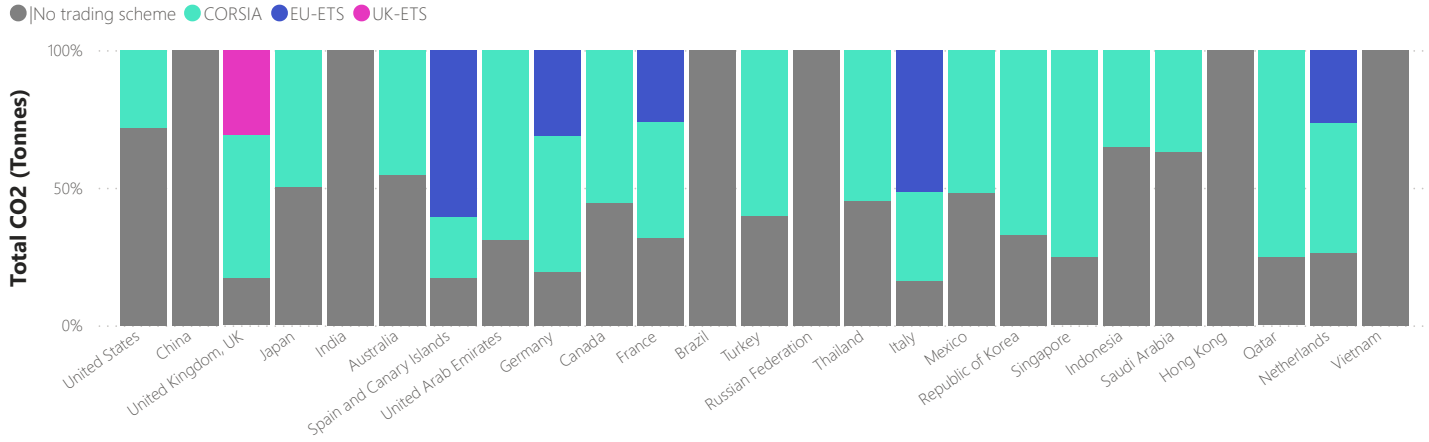
Change in Emissions - Current month vs prior years

Origin Country	This YTD vs Last YTD	This YTD vs YTD 2019
United States	-1%	-2%
China	2%	6%
United Kingdom, UK	-1%	-6%
Japan	-2%	-7%
India	-0%	8%
Australia	11%	6%
Spain and Canary Islands	3%	16%
United Arab Emirates	-17%	-7%
Germany	-3%	-18%
Canada	1%	-2%
France	0%	-7%
Brazil	4%	4%
Turkey	2%	31%
Russian Federation	2%	-16%
Thailand	2%	-13%
Italy	5%	11%
Mexico	-1%	7%
Republic of Korea	1%	-6%
Singapore	-1%	-2%
Indonesia	-4%	-15%
Saudi Arabia	-1%	17%
Hong Kong	8%	-25%
Qatar	-17%	-6%
Netherlands	1%	-6%
Vietnam	9%	21%

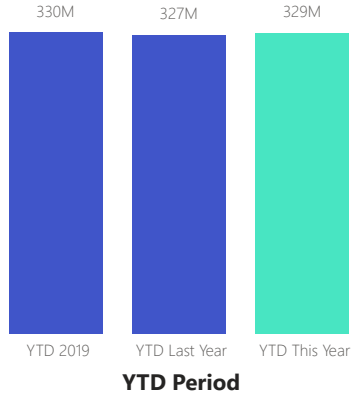
Percent of Emissions covered by Compliance Programmes

Origin Country	YTD 2019 Trading scheme %	YTD Last Year Trading scheme %	YTD This Year Trading scheme %
United States	-	28.52%	28.25%
China	-	-	-
United Kingdom, UK	30.05%	84.00%	82.61%
Japan	-	47.26%	49.51%
India	-	-	-
Australia	-	50.86%	45.06%
Spain and Canary Islands	62.16%	83.95%	82.51%
United Arab Emirates	-	70.64%	68.96%
Germany	33.27%	82.10%	80.69%
Canada	-	56.74%	55.56%
France	27.04%	68.40%	68.30%
Brazil	-	-	-
Turkey	-	60.83%	59.98%
Russian Federation	-	-	-
Thailand	-	53.99%	54.52%
Italy	51.64%	84.55%	83.60%
Mexico	-	51.27%	51.65%
Republic of Korea	-	68.19%	67.19%
Singapore	-	76.26%	74.95%
Indonesia	-	35.98%	35.17%
Saudi Arabia	-	40.23%	36.93%
Hong Kong	-	-	-
Qatar	-	77.03%	75.03%
Netherlands	24.32%	76.70%	73.77%
Vietnam	-	-	-

25 largest markets - emissions by Compliance Programme (current YTD)



Global emissions (tonnes)



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RDC CARE Index by carrier and home continent - May 26

Top 25 European Carriers

Carrier Name	CARE Index
La Compagnie	7.9
Wizz Air UK	7.8
Norra - Nordic Regional Airlines	7.6
TUIfly Nordic	7.6
Wizz Air	7.4
Sunclass Airlines	7.4
Marabu Airlines	7.3
World2Fly	7.3
French Bee	7.3
Iberojet	7.3
TUI Airways	7.1
Jet2	7.0
Air Serbia	7.0
Norse Atlantic Airways UK	7.0
KM Malta Airlines	7.0
Transavia	7.0
Corendon Dutch Airlines	6.9
SunExpress	6.9
Norse Atlantic Airways	6.8
Buzz	6.8
Wizz Air Malta	6.8
TUIfly Netherlands	6.7
Chalair Aviation	6.7
SmartWings	6.7
LEAV Aviation	6.7

Top 25 North American Carriers

Carrier Name	CARE Index
Flair Airlines	6.7
Frontier Airlines	6.7
Air Transat	6.7
Volaris	6.4
Porter Airlines Canada	6.4
Aeromexico	6.2
Avelo Air	6.1
Spirit Airlines	6.0
Allegiant Air	6.0
Air Canada	6.0
Breeze Airways	5.9
WestJet	5.9
Air Canada Rouge	5.9
JetBlue	5.8
Sun Country	5.8
Delta Air Lines	5.7
United Airlines	5.6
Mexicana	5.6
American Airlines	5.5
Air Saint-Pierre	5.3
VivaAerobus	5.3
Calm Air International	5.1
ConocoPhillips Alaska Inc	5.0
Alaska Airlines	4.9
Airbahn	4.5

Top 25 Asian Carriers

Carrier Name	CARE Index
Myanmar National Airlines	7.2
IndiGo	7.1
UTair Aviation	7.1
Air Premia	6.9
Chongqing Airlines	6.8
Akasa Air	6.7
Thai AirAsia X	6.7
ZIPAIR Tokyo	6.7
Scoot	6.6
AirAsia X	6.6
Myanmar Airways International	6.5
Hong Kong Express	6.4
MASWings	6.4
Asia Union Airlines	6.4
Centrum Air	6.3
AirSial	6.2
Nordwind Airlines	6.2
Greater Bay Airlines	6.2
Sun Phu Quoc Airways	6.1
NordStar Airlines	6.1
AirAsia Cambodia	6.1
Spring Airlines Japan	6.1
STARLUX Airlines	6.1
Fuzhou Airlines	6.0
Air Samarkand	6.0

Top 25 RoW Carriers

Carrier Name	CARE Index
FlyGabon	7.4
Arajet	7.1
Congo Airways	7.1
Fiji Airways	7.0
Fiji Link	6.9
Clic Air S.A.	6.8
flydubai	6.7
Sky Airline Peru	6.6
Air New Zealand	6.6
Flynas	6.5
Royal Air Maroc	6.5
Sky Airline	6.5
SalamAir	6.4
Red Sea Airlines	6.4
Aircalin	6.4
Air Senegal	6.4
Air Tahiti Nui	6.4
Jazeera Airways	6.3
Azul	6.2
El Al	6.2
Jetstar Airways	6.0
Copa Airlines	6.0
UR Airlines	6.0
Air Algerie	6.0
Nesma Airlines	6.0

The CARE Index is a measure of airline route sustainability, based around our emissions methodology and various other factors, that has been developed to give business and consumers the best information on which to make their purchasing decisions - particularly when it comes to making more environmentally friendly choices. Most 'efficiency measures' use CO2 per passenger, per seat or per available seat kilometre (ASK), which can be hard to understand for consumers. The CARE Index creates a score between 0 (worst) to 10 (best) for any air route, airline and aircraft combination, taking into account:

- fuel burn and efficiency of the aircraft type
- efficiency of the airline – using specific seat capacity, configuration and overall occupancy rates (load factor)
- use of Sustainable Alternative Fuels (SAF)
- if the route is part of a compliance or regulatory emissions programme such as EU ETS etc
- whether the operator offsets any emissions over and above that which is legally required

The CARE index has been designed to be a force for change, giving consumers better insight into the environmental impact of their chosen airline that will also help to shape airline sustainability strategies.

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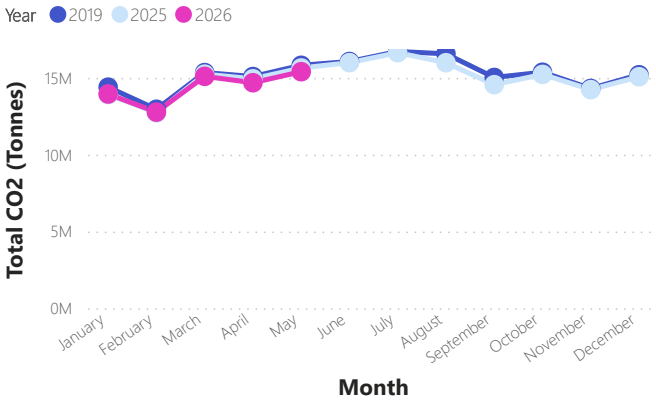
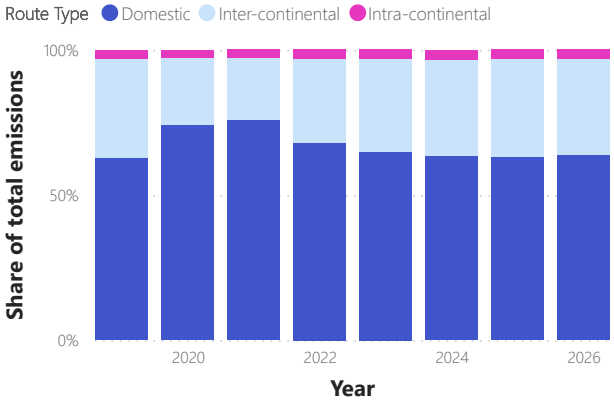
This month's focus country: United States

Total CO2 (Tonnes) by Month and Year



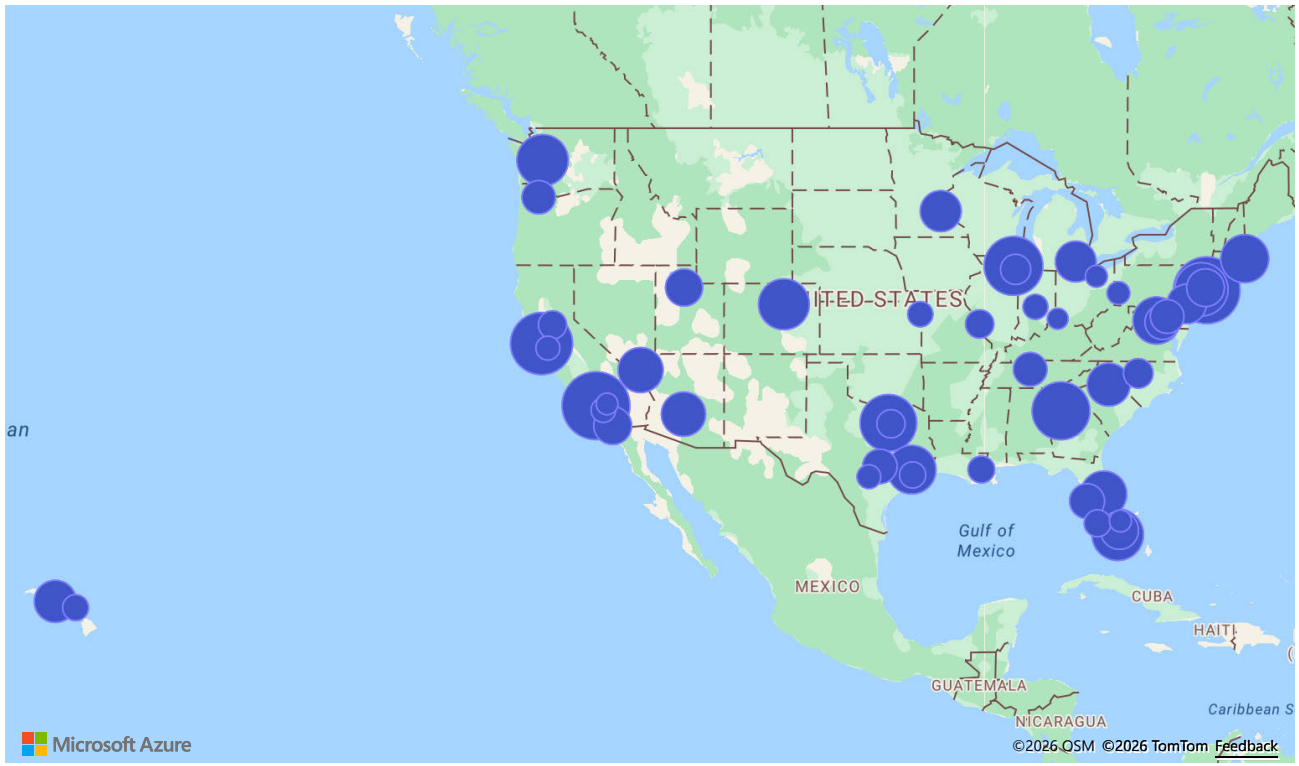
CO2 by Year and Route Type



10 largest markets by seat capacity ranked by lowest Emissions per ASK - last 12 months

Destination Country	Emissions per ASK (g)	Total CO2 (Tonnes)
Puerto Rico	58.00	1,015,367
Dominican Republic	59.60	870,391
Mexico	61.88	3,272,701
France	65.45	3,013,357
Canada	68.08	2,245,796
United States	69.90	113,703,548
Italy	70.08	2,089,047
United Kingdom, UK	77.56	7,151,747
Germany	78.67	4,083,902
Japan	80.47	4,521,099

Largest origin airports by total emissions - last 12 months



10 largest carrier by emissions ranked by highest total emissions - last 12 months

Carrier Name	Emissions per ASK (g)	Total CO2 (Tonnes)
United Airlines	67.86	27,563,977
Delta Air Lines	68.26	26,957,031
American Airlines	66.43	25,709,734
Southwest Airlines	67.44	18,229,089
Alaska Airlines	62.29	7,312,385
Skywest Airlines	119.09	5,856,289
JetBlue	62.00	5,725,972
Frontier Airlines	51.80	3,218,269
Spirit Airlines	58.17	2,913,959
British Airways	86.32	2,873,972

Emissions by airport - last 12 months

Origin Name	Total CO2 (Tonnes)	Emissions per ASK (g)
Los Angeles International Airport	13,368,013	69.55
New York - John F. Kennedy International Airport	12,755,823	70.01
San Francisco International Airport	10,454,282	73.38
Chicago - O'Hare International Airport	8,915,915	71.57
Hartsfield-Jackson Atlanta International Airport	8,482,825	72.31
Dallas/Ft. Worth International Airport	8,008,859	72.15
New York - Newark Liberty International Airport	6,648,612	68.85
Miami International Airport	6,053,576	66.05

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For decades RDC have been monitoring and modelling the CO_2 emissions arising from the growing aviation industry. We have the ability to calculate and report detailed airline operating expenses - including fuel burn, which in turn gives us the CO_2 output from flying.

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Normec Verifavia

Our CO_2 emissions methodology and data has been independently audited and verified by Normec Verifavia

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