



Aviation Emissions Report

March 2026





Emissions analysis for largest markets - March 26 vs prior years

25 largest markets by total emissions

Date	March 2019	March 2025	March 2026
Origin Country	Total CO2 (Tonnes)	Total CO2 (Tonnes)	Total CO2 (Tonnes)
United States	15,340,819	15,236,264	15,093,472
China	7,645,655	7,780,099	8,439,210
United Kingdom, UK	2,674,884	2,502,064	2,518,780
Japan	2,343,853	2,228,340	2,203,676
India	1,861,392	2,029,933	1,984,187
Australia	1,743,936	1,650,024	1,862,738
Spain and Canary Islands	1,470,020	1,715,881	1,756,876
United Arab Emirates	2,018,308	2,134,254	1,715,518
Germany	1,936,035	1,636,174	1,620,559
Canada	1,525,024	1,460,332	1,477,907
France	1,518,398	1,411,000	1,428,106
Brazil	1,335,947	1,335,876	1,409,066
Turkey	978,791	1,208,477	1,302,475
Thailand	1,379,402	1,155,333	1,218,045
Russian Federation	1,433,347	1,194,390	1,207,589
Mexico	1,050,977	1,166,068	1,158,282
Republic of Korea	1,137,084	1,064,067	1,064,860
Italy	941,741	999,097	1,050,250
Singapore	1,032,714	999,649	1,025,773
Indonesia	1,091,360	917,035	955,749
Saudi Arabia	729,330	866,169	931,694
Qatar	805,410	895,900	900,944
Hong Kong	1,075,707	749,391	798,487
Vietnam	581,825	626,185	715,047
Netherlands	754,041	700,287	702,547

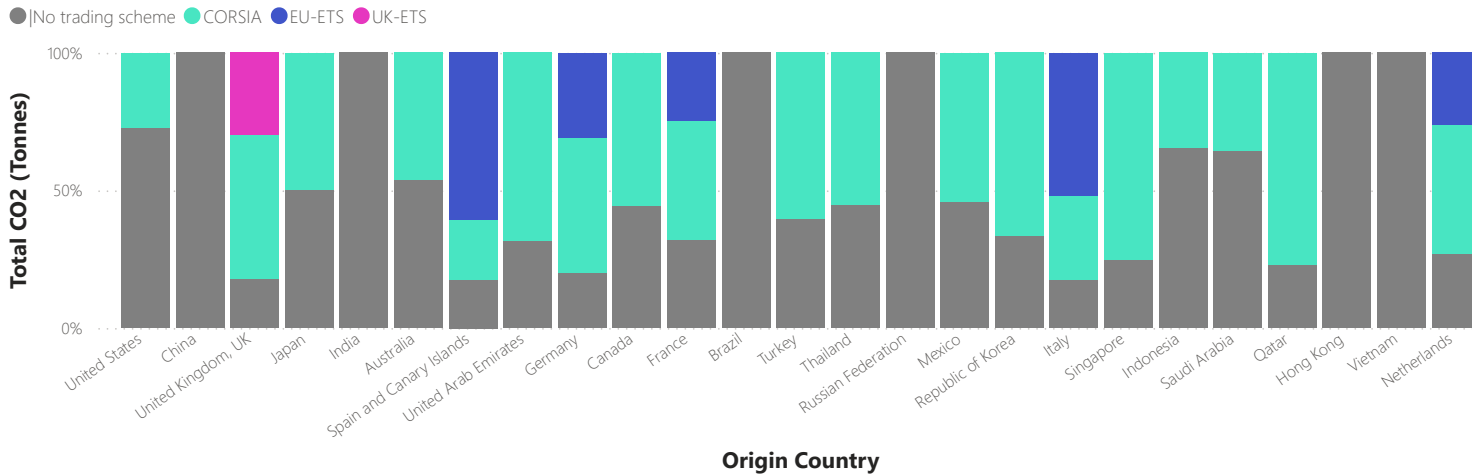
Change in Emissions - Current month vs prior years

This year vs last year	This year vs 2019
-1%	-2%
8%	10%
1%	-6%
-1%	-6%
-2%	7%
13%	7%
2%	20%
-20%	-15%
-1%	-16%
1%	-3%
1%	-6%
5%	5%
8%	33%
5%	-12%
1%	-16%
-1%	10%
0%	-6%
5%	12%
3%	-1%
4%	-12%
8%	28%
1%	12%
7%	-26%
14%	23%
0%	-7%

Percent of Emissions covered by Compliance Programmes

March 2019 % covered	March 2025 % covered	March 2026 % covered
-	27.50%	27.11%
-	-	-
28.51%	83.27%	81.90%
-	47.27%	49.77%
-	-	-
-	51.35%	46.28%
61.80%	83.83%	82.56%
-	70.74%	68.35%
32.55%	81.29%	79.95%
-	57.61%	55.47%
25.83%	68.05%	67.81%
-	-	-
-	60.23%	60.36%
-	54.76%	55.24%
-	-	-
-	53.32%	53.99%
-	68.56%	66.63%
50.97%	83.84%	82.68%
-	76.64%	75.09%
-	35.89%	34.58%
-	37.62%	35.52%
-	76.88%	76.83%
-	-	-
-	-	-
23.90%	76.00%	73.16%

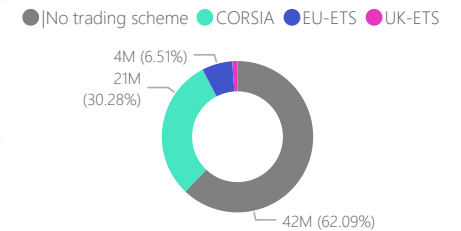
25 largest markets - emissions by Compliance Programme (current month)



Global emissions (tonnes)

68M

Emissions by compliance programme





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

25 largest markets by total emissions

YTD Period	YTD 2019	YTD Last Year	YTD This Year
Origin Country	Total CO2 (Tonnes)	Total CO2 (Tonnes)	Total CO2 (Tonnes)
United States	42,683,782	41,862,203	41,805,118
China	22,908,429	24,173,599	25,153,453
United Kingdom, UK	7,626,823	7,072,942	7,118,844
Japan	6,737,220	6,410,141	6,356,771
United Arab Emirates	5,891,477	6,234,315	6,024,286
India	5,595,304	5,875,017	5,906,391
Australia	5,271,369	5,027,153	5,743,717
Spain and Canary Islands	4,137,999	4,698,793	4,814,850
Germany	5,476,115	4,451,419	4,430,344
Brazil	4,119,145	4,025,728	4,268,487
Canada	4,376,158	4,168,860	4,197,362
France	4,381,183	3,991,264	4,066,818
Turkey	2,804,434	3,548,148	3,769,846
Thailand	4,081,274	3,510,882	3,678,629
Russian Federation	4,154,684	3,444,710	3,545,960
Mexico	2,996,414	3,305,539	3,325,214
Republic of Korea	3,351,676	3,180,965	3,204,906
Singapore	3,027,370	2,956,794	2,989,963
Indonesia	3,257,663	2,851,577	2,860,543
Italy	2,670,943	2,706,662	2,840,245
Saudi Arabia	2,132,252	2,597,531	2,790,560
Qatar	2,344,553	2,650,722	2,759,687
Hong Kong	3,184,504	2,183,869	2,380,913
Vietnam	1,661,794	1,888,718	2,170,853
Malaysia	2,033,513	1,879,734	2,077,109

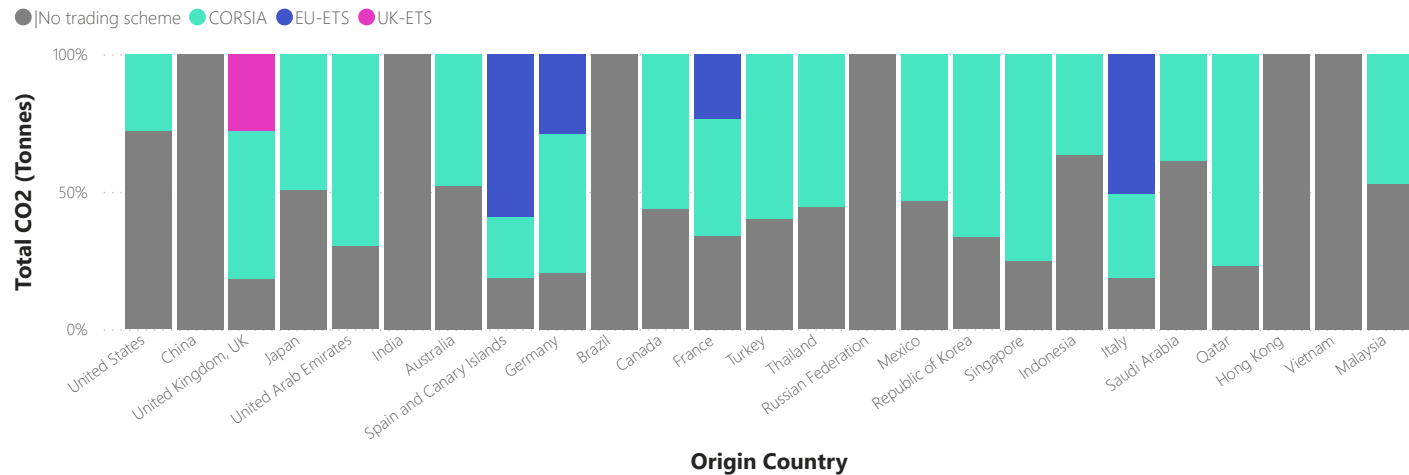
Change in Emissions - Current month vs prior years

This YTD vs Last YTD	This YTD vs YTD 2019
-0%	-2%
4%	10%
1%	-7%
-1%	-6%
-3%	2%
1%	6%
14%	9%
2%	16%
-0%	-19%
6%	4%
1%	-4%
2%	-7%
6%	34%
5%	-10%
3%	-15%
1%	11%
1%	-4%
1%	-1%
0%	-12%
5%	6%
7%	31%
4%	18%
9%	-25%
15%	31%
11%	2%

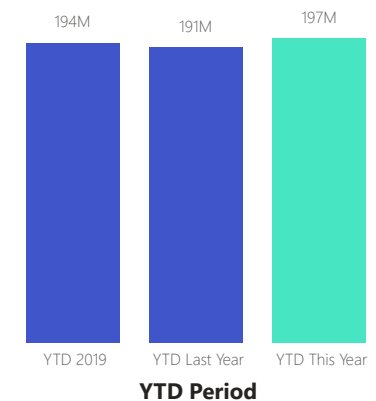
Percent of Emissions covered by Compliance Programmes

YTD 2019	YTD Last Year	YTD This Year
Trading scheme %	Trading scheme %	Trading scheme %
-	27.68%	27.78%
-	-	-
27.63%	82.51%	81.46%
-	46.84%	49.28%
-	70.72%	69.53%
-	-	-
-	51.13%	47.64%
61.04%	82.77%	81.19%
32.35%	80.50%	79.29%
-	-	-
-	56.85%	56.05%
24.83%	66.09%	66.20%
-	60.23%	59.83%
-	54.20%	55.31%
-	-	-
-	53.26%	53.36%
-	68.37%	66.31%
-	76.44%	74.85%
-	36.53%	36.41%
51.16%	82.70%	81.48%
-	41.34%	38.83%
-	77.01%	76.99%
-	-	-
-	-	-
-	48.32%	47.19%

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



Global emissions (tonnes)





RDC CARE Index by carrier and home continent - March 26

Top 25 European Carriers

Carrier Name	CARE Index
La Compagnie	8.0
Norra - Nordic Regional Airlines	7.9
DAT A/S	7.9
Wizz Air UK	7.8
Air Serbia	7.6
Smartwings Hungary	7.6
Marabu Airlines	7.5
Smartwings Slovakia	7.5
Wizz Air	7.4
Iberojet	7.3
French Bee	7.2
KM Malta Airlines	7.2
World2Fly	7.1
TUI Airways	7.1
Jet2	7.1
Sunclass Airlines	7.1
TUIfly Nordic	6.9
Norse Atlantic Airways UK	6.9
Transavia	6.9
Southwind Airlines	6.9
Smartwings Poland	6.9
Wizz Air Malta	6.8
SunExpress	6.8
Ryanair	6.7
SmartWings	6.7

Top 25 North American Carriers

Carrier Name	CARE Index
Flair Airlines	7.0
Frontier Airlines	6.8
Air Transat	6.8
Porter Airlines Canada	6.6
Volaris	6.5
WestJet	6.2
Spirit Airlines	6.2
Air Canada	6.1
Aeromexico	6.1
Sun Country	6.1
Avelo Air	6.1
Allegiant Air	6.0
Breeze Airways	6.0
JetBlue	5.8
Delta Air Lines	5.7
Air Canada Rouge	5.6
United Airlines	5.6
Mexicana	5.6
American Airlines	5.5
VivaAerobus	5.3
Air Saint-Pierre	5.3
Calm Air International	5.1
ConocoPhillips Alaska Inc	5.0
Alaska Airlines	4.9
Airbahn	4.4

Top 25 Asian Carriers

Carrier Name	CARE Index
Air Cambodia	7.9
UTair Aviation	7.2
Myanmar Airways International	7.1
Myanmar National Airlines	7.1
IndiGo	7.1
Air Premia	6.9
Chongqing Airlines	6.8
Akasa Air	6.7
Thai AirAsia X	6.7
ZIPAIR Tokyo	6.6
Scoot	6.6
AirAsia X	6.6
Centrum Air	6.6
Hong Kong Express	6.3
Nordwind Airlines	6.2
AirSial	6.2
STARLUX Airlines	6.2
Spring Airlines Japan	6.1
Greater Bay Airlines	6.1
airblue	6.1
Air Samarkand	6.1
Tigerair Taiwan	6.0
Fly Jinnah	6.0
NordStar Airlines	6.0
Sky Angkor Airlines	6.0

Top 25 RoW Carriers

Carrier Name	CARE Index
FlyGabon	8.0
Air Botswana	7.9
Clic Air S.A.	7.1
Arajjet	7.1
Precision Air	7.1
flydubai	6.7
Sky Airline Peru	6.6
Sky Airline	6.5
Royal Air Maroc	6.5
Air New Zealand	6.5
Aircalin	6.5
SalamAir	6.4
Red Sea Airlines	6.4
UR Airlines	6.4
Air Tahiti Nui	6.3
Air Algeria	6.2
El Al	6.1
Copa Airlines	6.0
Oman Air	6.0
Azul	6.0
Air Arabia	6.0
Jazeera Airways	6.0
Jetstar Airways	6.0
Flynas	5.9
Nouvelair Tunisie	5.9

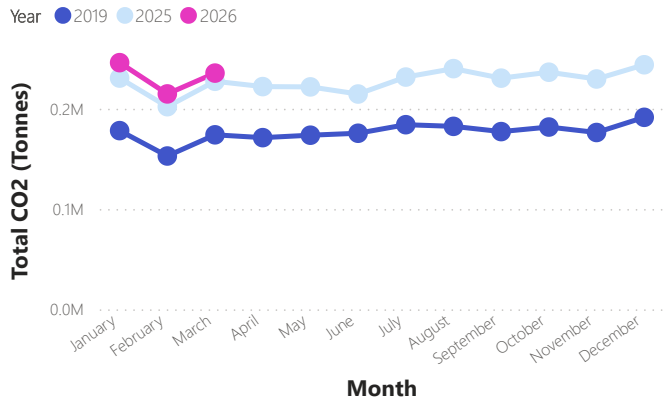
The CARE Index is a measure of airline route sustainability, based around our emissions methodology and various other factors, that has been developed to give business and consumers the best information on which to make their purchasing decisions - particularly when it comes to making more environmentally 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**

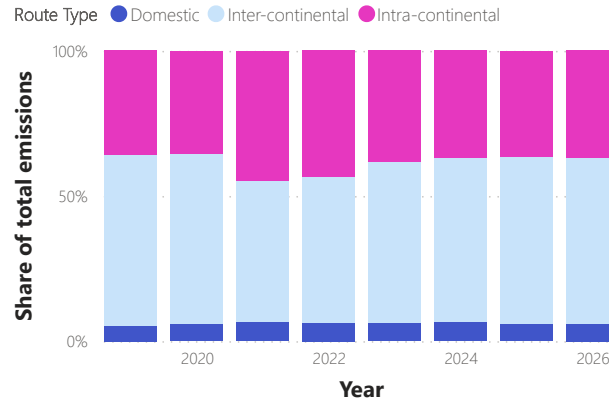
The CARE index has been designed to be a force for change, giving consumers better insight into the environmental impact of their chosen airline that will also help to shape airline sustainability strategies.

This month's focus country: Ethiopia

Total CO2 (Tonnes) by Month and Year



CO2 by Year and Route Type



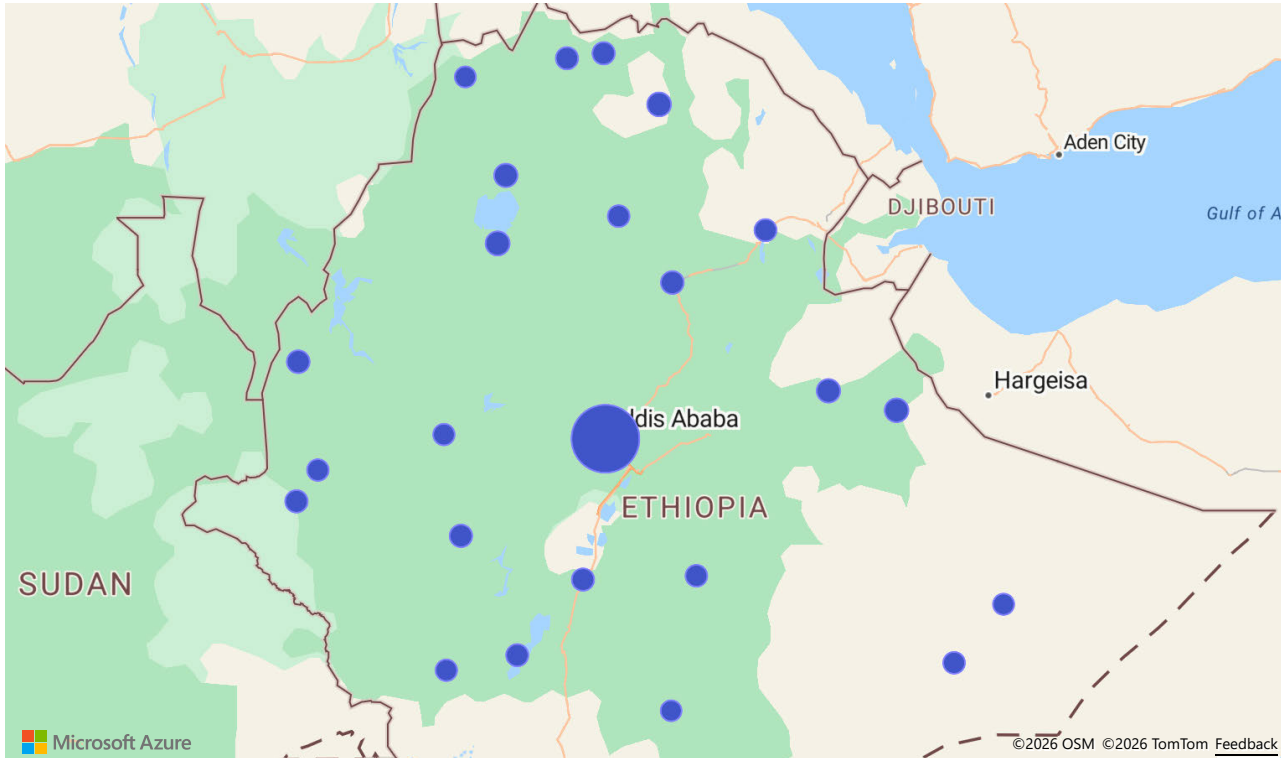
10 largest markets by seat capacity ranked by lowest Emissions per ASK - last 12 months

Destination Country	Emissions per ASK (g)	Total CO2 (Tonnes)
Nigeria	52.62	89,802
Italy	53.55	189,030
South Africa	55.06	120,671
United Republic of Tanzania	60.51	57,764
China	62.04	291,862
United Arab Emirates	62.40	131,485
Saudi Arabia	62.71	88,729
India	62.88	144,090
Kenya	68.94	33,638
Ethiopia	125.65	163,846

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

Carrier Name	Emissions per ASK (g)	Total CO2 (Tonnes)
Ethiopian Airlines	60.77	2,645,394
Emirates	75.88	21,820
flydubai	53.47	17,696
Turkish Airlines	54.30	14,615
Saudia	67.06	14,423
Flynas	53.17	11,494
EgyptAir	60.13	10,741
Air Arabia	61.67	8,095
Qatar Airways	64.22	7,823
Badr Airlines	66.46	5,267

Largest origin airports by total emissions - last 12 months



Emissions by airport - last 12 months

Origin Name	Total CO2 (Tonnes)	Emissions per ASK (g)
Addis Ababa - Bole Airport	2,680,552	59.82
Bahar Dar Airport	12,758	141.42
Makale Airport	11,001	108.54
Jijiga - Jigiga Airport	10,048	124.59
Dire Dawa - Aba Tenna D Yilma Airport	8,552	119.83
Gondar Airport	7,973	113.09
Dessie - Combolcha Airport	4,726	154.20
Asosa Airport	4,627	121.19
Jimma Airport	3,521	140.18
Gambela Airport	2,967	125.15

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For decades RDC have been monitoring and modelling the CO₂ 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 CO₂ output from flying.

To find out more about how RDC can deliver CO₂ emissions data for your business services, get in touch at rdcaviation.com/contact



Our CO₂ emissions methodology and data has been independently audited and verified by [Normec Verifavia](https://www.normec.com)

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