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# Aviation Emissions Report

June 2025





# Emissions analysis for largest markets - June 25 vs prior years

## 25 largest markets by total emissions

Date	June 2019	June 2024	June 2025
Origin Country	Total CO2 (Tonnes)	Total CO2 (Tonnes)	Total CO2 (Tonnes)
United States	16,072,700	15,605,784	16,080,481
China	7,698,015	7,799,341	7,887,875
United Kingdom, UK	3,077,947	2,897,790	2,934,350
Japan	2,304,719	2,042,588	2,145,255
United Arab Emirates	1,934,336	1,943,456	2,054,896
Spain and Canary Islands	1,857,414	1,925,741	2,002,078
Germany	2,179,662	1,864,291	1,895,636
India	1,726,094	1,825,622	1,868,635
Canada	1,711,751	1,584,811	1,670,228
Turkey	1,293,477	1,585,909	1,667,402
France	1,735,805	1,609,669	1,636,177
Australia	1,647,265	1,539,080	1,593,130
Russian Federation	1,750,584	1,509,868	1,523,337
Italy	1,273,004	1,316,030	1,386,401
Brazil	1,207,192	1,171,709	1,303,692
Republic of Korea	1,172,772	1,044,412	1,052,156
Mexico	987,512	993,637	1,008,177
Singapore	995,963	947,893	972,712
Indonesia	1,096,445	972,649	913,887
Qatar	767,720	907,259	897,928
Thailand	1,116,736	879,802	891,536
Saudi Arabia	746,741	805,087	852,761
Netherlands	825,521	732,607	759,166
Hong Kong	1,062,742	652,524	744,498
Vietnam	598,947	577,830	639,169

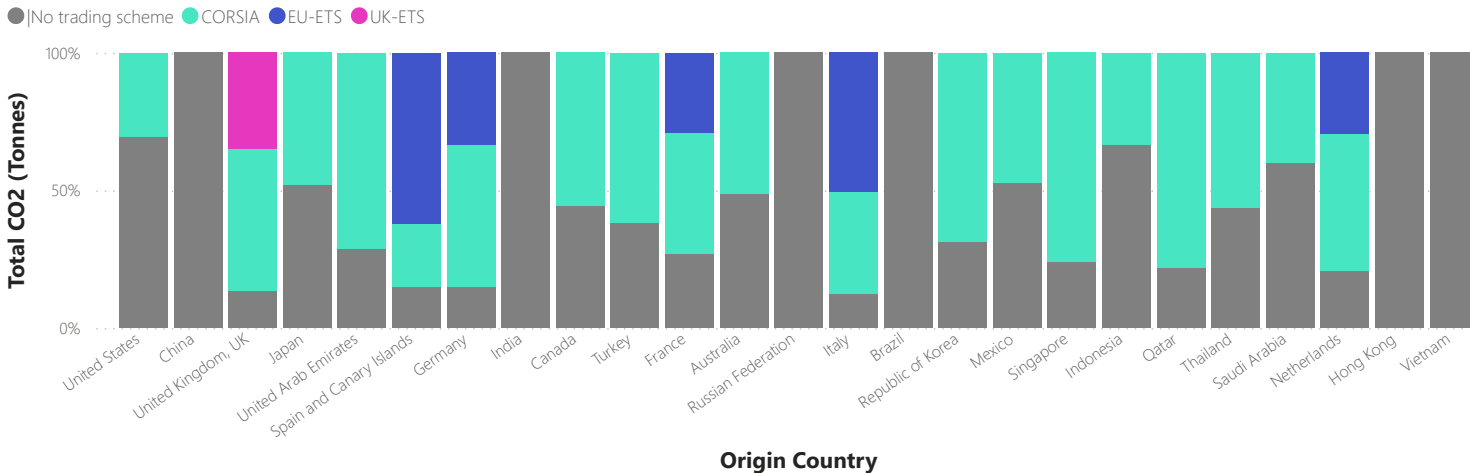
## Change in Emissions - Current month vs prior years

This year vs last year	This year vs 2019
3%	0%
1%	2%
1%	-5%
5%	-7%
6%	6%
4%	8%
2%	-13%
2%	8%
5%	-2%
5%	29%
2%	-6%
4%	-3%
1%	-13%
5%	9%
11%	8%
1%	-10%
1%	2%
3%	-2%
-6%	-17%
-1%	17%
1%	-20%
6%	14%
4%	-8%
14%	-30%
11%	7%

## Percent of Emissions covered by Compliance Programmes

June 2019 % covered	June 2024 % covered	June 2025 % covered
-	30.33%	30.34%
-	-	-
34.54%	86.74%	86.45%
-	47.77%	48.01%
-	69.95%	71.17%
62.47%	86.08%	85.19%
34.39%	84.66%	84.98%
-	-	-
-	57.12%	55.60%
-	61.31%	61.64%
29.75%	73.84%	73.20%
-	49.51%	51.26%
-	-	-
51.02%	88.37%	87.39%
-	-	-
-	68.13%	68.55%
-	47.46%	47.16%
-	75.63%	75.97%
-	32.87%	33.25%
-	77.49%	77.95%
-	54.11%	56.15%
-	41.42%	39.79%
26.19%	80.19%	79.26%
-	-	-
-	-	-

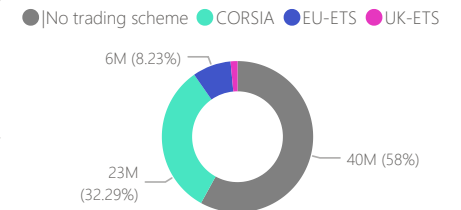
## 25 largest markets - emissions by Compliance Programme (current month)



## Global emissions (tonnes)

70M

## Emissions by compliance programme





# Emissions analysis for largest markets - YTD to Jun 25 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	89,675,106	86,615,920	88,727,207
China	45,965,337	47,383,682	47,774,646
United Kingdom, UK	16,513,155	15,264,519	15,636,817
Japan	13,694,979	12,260,219	12,944,558
United Arab Emirates	11,283,515	11,683,098	12,466,907
India	10,759,402	10,949,845	11,666,050
Spain and Canary Islands	9,390,620	9,898,633	10,491,183
Germany	11,780,792	9,847,624	10,024,428
Australia	10,244,052	9,586,937	9,810,634
Canada	9,119,432	8,364,177	8,826,700
France	9,401,658	8,477,116	8,749,937
Turkey	6,307,852	7,791,179	8,143,183
Brazil	7,780,813	7,232,903	7,892,225
Russian Federation	8,917,088	7,254,858	7,524,389
Italy	6,213,217	6,207,565	6,630,574
Mexico	5,975,999	6,155,234	6,445,616
Thailand	7,532,135	5,858,816	6,408,346
Republic of Korea	6,832,046	6,182,334	6,297,849
Singapore	6,010,344	5,621,967	5,896,678
Indonesia	6,486,485	5,845,396	5,730,734
Qatar	4,646,030	5,364,444	5,304,909
Saudi Arabia	4,324,389	4,815,230	5,089,010
Hong Kong	6,374,832	3,866,181	4,413,156
Netherlands	4,600,415	4,140,015	4,258,778
Vietnam	3,407,768	3,382,285	3,786,618

## Change in Emissions - Current month vs prior years

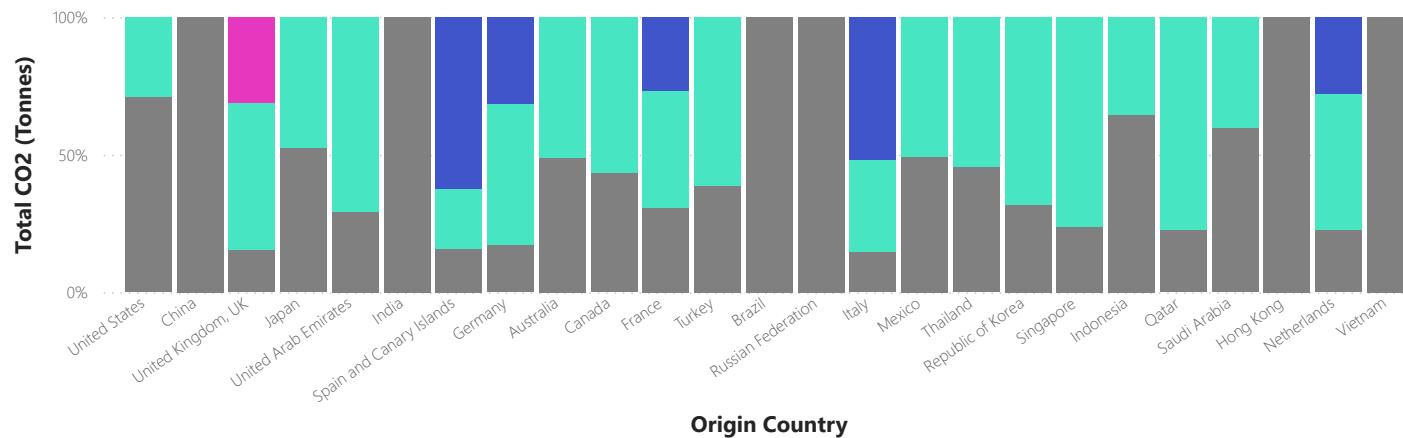
This YTD vs Last YTD	This YTD vs YTD 2019
2%	-1%
1%	4%
2%	-5%
6%	-5%
7%	10%
7%	8%
6%	12%
2%	-15%
2%	-4%
6%	-3%
3%	-7%
5%	29%
9%	1%
4%	-16%
7%	7%
5%	8%
9%	-15%
2%	-8%
5%	-2%
-2%	-12%
-1%	14%
6%	18%
14%	-31%
3%	-7%
12%	11%

## Percent of Emissions covered by Compliance Programmes

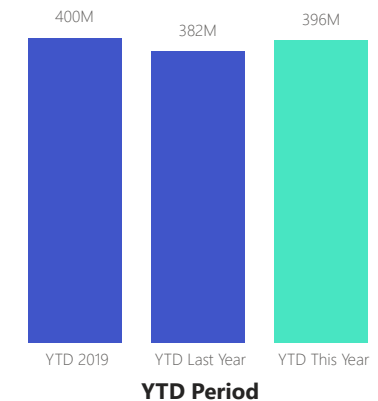
YTD 2019	YTD Last Year	YTD This Year
Trading scheme %	Trading scheme %	Trading scheme %
-	29.02%	28.81%
-	-	-
30.87%	85.27%	84.46%
-	47.14%	47.36%
-	69.96%	70.80%
-	-	-
62.27%	85.08%	84.19%
33.47%	82.02%	82.66%
-	49.42%	50.94%
-	58.52%	56.51%
27.55%	70.07%	69.31%
-	60.85%	61.10%
-	-	-
-	-	-
51.52%	85.88%	85.17%
-	52.63%	50.57%
-	53.56%	54.31%
-	67.52%	68.18%
-	75.58%	76.23%
-	33.90%	35.56%
-	76.68%	77.18%
-	41.36%	40.17%
-	-	-
24.65%	77.78%	77.16%
-	-	-

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

● No trading scheme ● CORSIA ● EU-ETS ● UK-ETS



## Global emissions (tonnes)





# RDC CARE Index by carrier and home continent - June 25

## Top 25 European Carriers

Carrier Name	CARE Index
La Compagnie	7.8
Wizz Air UK	7.8
TUIfly Nordic	7.6
PLAY	7.4
World2Fly	7.3
French Bee	7.3
Sunclass Airlines	7.3
Wizz Air	7.2
Marabu Airlines	7.1
Norse Atlantic Airways UK	7.1
TUI Airways	7.1
Norse Atlantic Airways	7.0
Jet2	7.0
Iberojet	7.0
World2Fly Portugal	6.9
Wizz Air Malta	6.8
Transavia	6.8
SunExpress	6.8
Buzz	6.7
Enter Air	6.7
Malta Air	6.7
TUIfly Deutschland	6.7
SmartWings	6.6
Transavia France	6.6
Freebird Airlines	6.6
Avion Express	6.6

## Top 25 North American Carriers

Carrier Name	CARE Index
Frontier Airlines	6.8
Flair Airlines	6.7
Air Transat	6.7
Porter Airlines Canada	6.4
Spirit Airlines	6.4
Volaris	6.4
Air Canada	6.0
Allegiant Air	6.0
WestJet	5.9
Sun Country	5.9
Delta Air Lines	5.7
JetBlue	5.7
Alaska Airlines	5.7
United Airlines	5.6
Aeromexico	5.6
Air Canada Rouge	5.6
Breeze Airways	5.6
VivaAerobus	5.6
American Airlines	5.6
Mexicana	5.5
Air Saint-Pierre	5.4
Avelo Air	5.3
Southwest Airlines	5.3
ConocoPhillips Alaska Inc	5.0
Airbahn	5.0
Air North	4.3

## Top 25 Asian Carriers

Carrier Name	CARE Index
Chongqing Airlines	6.9
Akasa Air	6.7
ZIPAIR Tokyo	6.7
Thai AirAsia X	6.5
Scoot	6.5
Hong Kong Express	6.5
AirAsia X	6.4
My Freighter	6.3
Qanot Sharq Airlines	6.2
IndiGo	6.2
Air Premia	6.2
STARLUX Airlines	6.2
Spring Airlines Japan	6.2
NordStar Airlines	6.1
Philippine Airlines	6.1
Tigerair Taiwan	6.1
Ural Airlines	6.1
Fuzhou Airlines	6.0
airblue	6.0
China United Airlines	6.0
Suparna Airlines	6.0
Greater Bay Airlines	6.0
Fly Jinnah	5.9
Nordwind Airlines	5.9
Jetstar Asia	5.9
Spring Airlines	5.9

## Top 25 RoW Carriers

Carrier Name	CARE Index
Arajat	7.0
Wizz Air Abu Dhabi	6.9
Sky Airline	6.7
flydubai	6.6
Hadhramout Airways	6.5
Aircalin	6.4
Red Sea Airlines	6.4
Flynas	6.4
Air Tahiti Nui	6.4
SalamAir	6.3
Sky Airline Peru	6.3
El Al	6.2
Syrian Air	6.1
UR Airlines	6.1
Jetstar Airways	6.0
Jazeera Airways	6.0
Fly Cham	6.0
Nouvelair Tunisie	6.0
Copa Airlines	5.9
Nile Air	5.9
Oman Air	5.9
Arkia Israel Airlines	5.9
Airmax Cargo	5.8
Flybondi	5.8
Air Arabia	5.8
Nesma Airlines	5.8

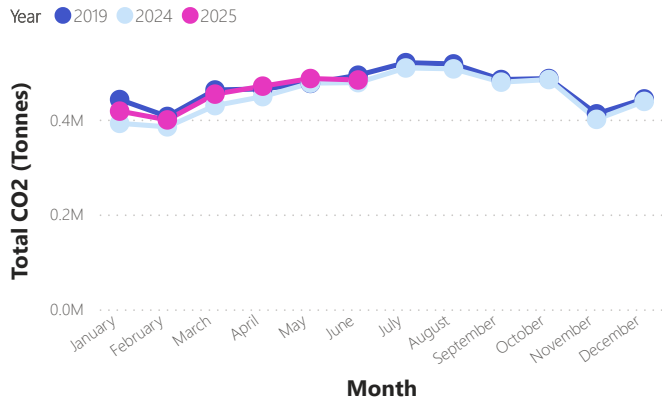
The CARE Index is a measure of airline route sustainability, based around our emissions methodology and various other factors, that has been developed to give business and consumers the best information on which to make their purchasing decisions - particularly when it comes to making more environmentally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

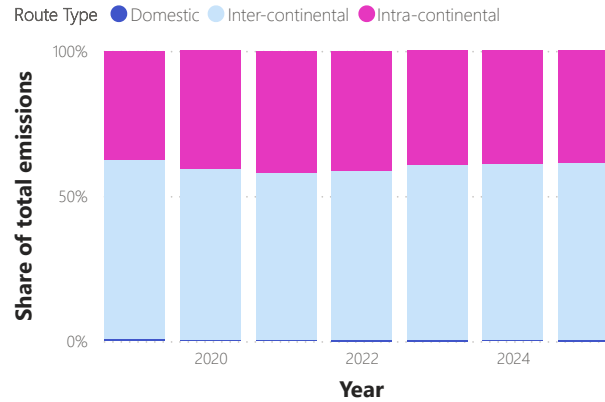
The CARE index has been designed to be a force for change, giving consumers better insight into the environmental impact of their chosen airline that will also help to shape airline sustainability strategies.

# This month's focus country: Switzerland

### Total CO2 (Tonnes) by Month and Year



### CO2 by Year and Route Type



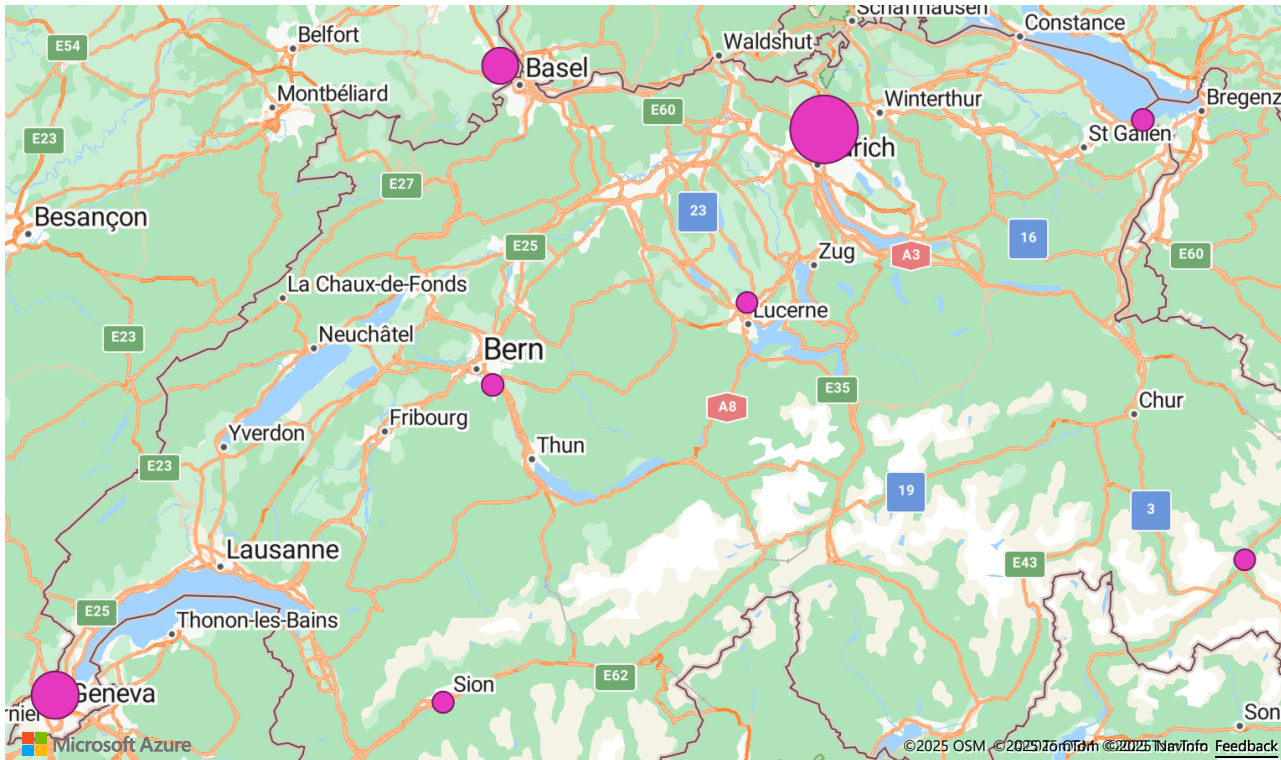
### 10 largest markets by seat capacity ranked by lowest Emissions per ASK - last 12 months

Destination Country	Emissions per ASK (g)	Total CO2 (Tonnes)
Turkey	60.59	213,729
Portugal	60.65	200,245
Greece	60.95	123,373
Spain and Canary Islands	66.46	355,653
United Kingdom, UK	70.41	255,425
Italy	74.26	134,655
United States	79.36	1,134,175
France	83.86	94,363
Netherlands	86.44	65,214
Germany	89.42	166,527

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

Carrier Name	Emissions per ASK (g)	Total CO2 (Tonnes)
SWISS	79.42	1,947,856
easyJet	66.80	629,327
Edelweiss Air	72.15	497,240
United Airlines	75.08	271,559
Emirates	74.88	220,974
Helvetic Airways	88.21	119,806
Singapore Airlines	104.50	108,932
Thai	78.34	94,565
Qatar Airways	65.45	92,572
Air Canada	74.63	92,343

### Largest origin airports by total emissions - last 12 months



### Emissions by airport - last 12 months

Origin Name	Total CO2 (Tonnes)	Emissions per ASK (g)
Zurich Airport	3,874,948	76.19
Geneva - Cointrin Airport	1,229,404	67.64
EuroAirport Basel-Mulhouse-Freiburg	418,178	66.50
Altenrhein Airport	2,790	141.97
Berne - Belp Airport	2,332	66.27
Sion Airport	330	105.35
Emmen	55	72.26
Samedan Airport	9	124.80

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For decades RDC have been monitoring and modelling the CO<sub>2</sub> 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<sub>2</sub> output from flying. For accuracy on CO<sub>2</sub> emissions data, our accredited and independent methodology can't be beaten.

To find out more about how RDC can deliver CO<sub>2</sub> emissions data for your business services, get in touch at [rdcaviation.com/contact](https://rdcaviation.com/contact)

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