

Table EN7: Aviation Greenhouse Gas Emission Intensity, by Region of Operation, 2009-2023

Region of Operation	Units	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Domestic	g CO _{2eq} /RTK	N/A	N/A	N/A	1,161	1,151	1,100	1,089	1,047	1,053	1,019	1,014	1,262	1,060	537	938
International	g CO _{2eq} /RTK	N/A	N/A	N/A	876	865	847	847	827	792	768	775	977	960	1,156	769
Overall	g CO _{2eq} /RTK	1,002	982	976	960	951	923	916	885	860	832	834	1,062	998	836	814

Notes and Sources

Notes: RTK = Revenue Tonne Kilometres, RPK = Revenue Passenger Kilometres. N/A = Not available. RTK includes the weight of cargo and passengers. Passenger RTK is calculated by multiplying RPK by 100kg, which is the industry’s conventional assumption of the average weight per passenger, including baggage.

Description:

The table presents aggregate efficiency for participating action plan operators based on the emissions per revenue tonne kilometer travelled (including both cargo and passengers). Aviation operations show ongoing efficiency improvement trend but were impacted significantly as a result of the pandemic in 2021 and 2022. Overall operations reached reached a record efficiency level in 2023.

Methodology:

Based on Transport Canada aggregated operator data collection.

Source:

Canada’s Aviation Climate Action Plan 2022 and 2023 Report