



ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

ICAO document

CORSIA Annual Sector's Growth Factor (SGF)



October 2024

C**RSIA**

Carbon Offsetting and Reduction Scheme for International Aviation

This ICAO document is referenced in Annex 16 — *Environmental Protection*, Volume IV — *Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)*. This ICAO document is material approved by the ICAO Council for publication by ICAO to support Annex 16, Volume IV, and is essential for the implementation of the CORSIA. This ICAO document is available on the ICAO CORSIA website and may only be amended by the Council.

The table below shows the amendments to this ICAO document over time, together with the dates on which the amendments were published on the ICAO website.

**Amendments to the ICAO document
“CORSIA Annual Sector’s Growth Factor (SGF)”**

<i>Edition</i>	<i>Amendment</i>	<i>Published</i>
1 st	Sector’s Growth Factor (SGF) for year 2021	31 October 2022
2 nd	Sector’s Growth Factor (SGF) for year 2022	31 October 2023
3 rd	Sector’s Growth Factor (SGF) for year 2023	31 October 2024

CORSIA Annual Sector's Growth Factor (SGF)

Year: 2023

This ICAO CORSIA document contains the Sector's Growth Factor (SGF) that will be used by each State in the calculation of the annual amount of CO₂ emissions required to be offset, by each aeroplane operator attributed to it, prior to consideration of the CORSIA eligible fuels, in accordance with Annex 16, Volume IV, Part II, Chapter 3, 3.2.

The 2023 SGF value (SGF_y) is provided in the table below and has been calculated using the formula in Note 1 to Annex 16, Volume IV, Part II, Chapter 3, 3.2.1:

$$SGF_y = \frac{(SE_y - SE_{B,y})}{SE_y}$$

where:

- y is the year 2023;
- B is the year 2019 according to Assembly Resolution A41-22, paragraph 11 b), which specifies that, during the pilot phase, the baseline of CORSIA will be based on the 2019 CO₂ emissions;
- SE_y is the total 2023 CO₂ emissions for all State pairs subject to offsetting requirements based on the participation of 115 States as per edition 3 of ICAO CORSIA document “*CORSIA States for Chapter 3 State Pairs*”;¹
- $SE_{B,y}$ is the total 2019 CO₂ emissions for all State pairs subject to offsetting requirements in 2023 based on the participation of 115 States as per edition 3 of ICAO CORSIA document “*CORSIA States for Chapter 3 State Pairs*”.¹

Detailed CO₂ emissions for 2019 and 2023 have been published in Parts II and III, respectively, of ICAO document “*CORSIA Central Registry (CCR): Information and Data for Transparency*” that is available on the ICAO CORSIA website.²

Total 2023 CO ₂ emissions for all State pairs subject to offsetting requirements (SE_y)	330,236,931 ^a
Total 2019 CO ₂ emissions for all State pairs subject to offsetting requirements in the year 2023 ($SE_{B,y}$)	351,453,666 ^a
2023 Sector's Growth Factor (SGF_y)	0.0 ^b

^a Total CO₂ emissions were rounded to the nearest tonne.

^b Given that the total CO₂ emissions for all State pairs subject to offsetting requirements in 2023 were lower than the corresponding amount in 2019, each State is to use the 0.0 value for the purposes of calculating the 2023 CO₂ offsetting requirements for each aeroplane operator attributed to it.

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¹ <https://www.icao.int/environmental-protection/CORSIA/Pages/state-pairs.aspx>

² <https://www.icao.int/environmental-protection/CORSIA/Pages/CCR.aspx>