

ICAO “Carbon Offsetting & Reduction Scheme for International Aviation” (CORSIA)



- CORSIA is a Global Carbon Offsetting Scheme
 - Offsetting to help international aviation meet Carbon Neutral Growth goal (relative to 2020 baseline).
 - Not a carbon tax or emissions trading scheme.
 - Applies to Aeroplane Operators (airlines), international operations only.
 - Offsets required from 2021-2035.
 - Initial pilot phase from 2021-2023.
- CORSIA Eligible Fuels (CEF) can be used by an airline to reduce their offsetting requirements.

Offsetting, Fuels, and CORSIA

Two means for an aeroplane operator to comply with CORSIA

1. Offsetting with Emissions Units
2. Claiming Emissions Reductions from CORSIA Eligible Fuels

Two types of CORSIA Eligible Fuels (CEF)

“CORSIA Sustainable Aviation Fuel”: renewable or waste-derived fuel

“CORSIA Lower Carbon Aviation Fuel”: fossil-based fuel

To be eligible for CORSIA, a fuel needs to meet the CORSIA Sustainability Criteria as certified by ICAO Council Approved Sustainability Certification Scheme (SCS)



CORSIA Eligible Fuels – Key Documents

Annex 16 Volume IV

See: <https://www.icao.int/environmental-protection/CORSIA/Pages/SARPs-Annex-16-Volume-IV.aspx>

Five ICAO documents specifically relate to CORSIA Eligible Fuels, plus additional supporting documents

See: <https://www.icao.int/environmental-protection/CORSIA/Pages/CORSIA-Eligible-Fuels.aspx>

The screenshot shows the ICAO ENVIRONMENT website page for 'CORSIA Eligible Fuels'. The page features a navigation menu with options like 'About ICAO', 'Global Priorities', 'Events', 'Information Resources', 'Careers', 'Uniting Aviation', 'ICAO TV', and 'Subscribe'. The main content area is titled 'CORSIA Eligible Fuels' and includes a search bar. Below the title, there is a paragraph stating: 'This ICAO CORSIA Implementation Element is reflected in five ICAO documents referenced in Annex 16, Volume IV. They are available for download below.' A grid of five document covers is displayed, each with a title and a date. The titles are: 'CORSIA Eligibility Framework and Requirements for Sustainability Certification Schemes' (November 2019), 'CORSIA Approved Sustainability Certification Schemes*' (November 2020), 'CORSIA Sustainability Criteria for CORSIA Eligible Fuels' (June 2021), 'CORSIA Default Life Cycle Emissions Values for CORSIA Eligible Fuels**' (November 2019), and 'CORSIA Methodology for Calculating Actual Life Cycle Emissions Values' (November 2019). Below the grid, there is a note: '*Sustainability Certification Schemes interested in being evaluated should follow the application process described here.' At the bottom, there is a note: '**The CORSIA Supporting Document "CORSIA Eligible Fuels - Life Cycle Assessment Methodology" provides technical information and describes ICAO processes to manage and maintain the ICAO document "CORSIA Default Life Cycle Emissions Values for CORSIA Eligible Fuels", including the process to add new default values to this ICAO document.' A small image of the 'CORSIA' logo is also visible.

Sustainability Certification Schemes

- CORSIA Eligible Fuel must come from producers certified by an ICAO Council approved Sustainability Certification Scheme (SCS)
- SCSs must meet requirements of ICAO “CORSIA Eligibility Framework and Requirements for Sustainability Certification Schemes”
- Two SCSs currently approved for CORSIA:
 - International Sustainability and Carbon Certification (ISCC)
 - Roundtable on Sustainable Biomaterials (RSB)
- Applications by SCSs reviewed on an ongoing basis.
- Interested SCSs can apply at any time (link below).



To download document: <https://www.icao.int/environmental-protection/CORSIA/Documents/ICAO%20document%2004%20-%20Approved%20SCSs.pdf>

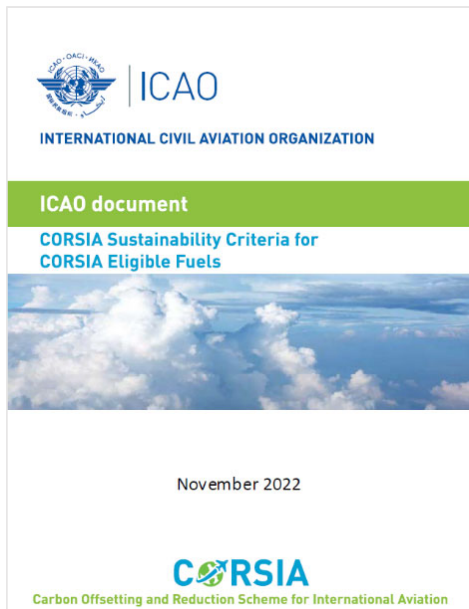
Information for SCSs interested in becoming an approved SCS can be found at:
<https://www.icao.int/environmental-protection/CORSIA/Pages/CORSIA-SCS-evaluation.aspx>

Development of CORSIA Sustainability Criteria

- Builds upon existing regulatory programs and voluntary certification schemes.
- Intended to ensure that carbon reduction does not come at the expense of other considerations.
- First global, sector-wide system of sustainability criteria.
- Other than carbon themes, not prescriptive in order to enable multiple sustainability certification schemes/programmes to qualify.

CORSIA Pilot Phase Sustainability Criteria (until Dec-31-2023) – applies to all CEF (SAF and LCAF)

Compiled within the ICAO Document “CORSIA Sustainability Criteria for CORSIA Eligible Fuels”



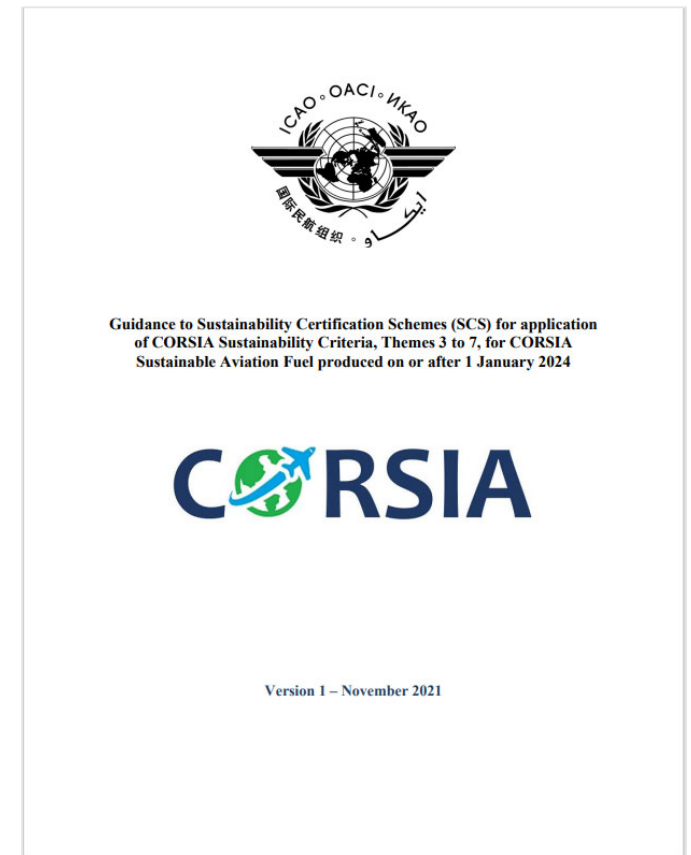
Theme	Principle	Criteria
1. Greenhouse Gases (GHG)	Principle: CORSIA eligible fuel should generate lower carbon emissions on a life cycle basis.	Criterion 1.1: CORSIA eligible fuel will achieve net greenhouse gas emissions reductions of at least 10% compared to the baseline life cycle emissions values for aviation fuel on a life cycle basis.
2. Carbon stock	Principle: CORSIA eligible fuel should not be made from biomass obtained from land with high carbon stock.	<p>Criterion 2.1: CORSIA eligible fuel will not be made from biomass that is either obtained from land converted after 1 January 2008 that was primary forest, wetlands, or peat lands or contributes to degradation of the carbon stock in primary forests, wetlands, or peat lands as these lands all have high carbon stocks.</p> <p>Criterion 2.2: In the event of land use conversion after 1 January 2008, as defined based on the Intergovernmental Panel on Climate Change (IPCC) land categories, direct land use change (DLUC) emissions will be calculated. If DLUC greenhouse gas emissions exceed the default induced land use change (ILUC) value, the DLUC value will replace the default ILUC value.</p>

Post-pilot phase expanded CORSIA Sustainability Criteria – for all CEF except where noted

Sustainability Pillar	Theme	# of Criteria
Environmental	Greenhouse gas (GHGs)	1
	High carbon stocks/land use	2
	GHG emissions reduction permanence	1
	Water quality	2
	Soil quality	1
	Air quality	1
	Conservation	3
	Wastes and chemicals	2
	Seismic and vibrational impacts	2 (LCAF Only)
	Social	Human and labor rights
Land use rights and land use		1
Water use rights		1
Economic	Local and social development	1
	Food security	1

Implementing CORSIA Sustainability Criteria

- Most criteria are non-quantitative requirements for avoidance of harm.
- Many require “operational practices” to be implemented to achieve compliance.
- ICAO provides guidance to help understand how to demonstrate compliance with environmental criteria.



Availability of Certified CEF data

- CORSIA Central Registry
- Approved SCS Annual Reports
- SCS websites

The screenshot shows the ICAO ENVIRONMENT website. The main navigation bar includes links for About ICAO, Global Priorities, Events, Information Resources, Careers, Uniting Aviation, ICAO TV, and Subscribe. The page title is "CORSIA Central Registry (CCR)". The content explains that the CCR is a database used by States to submit CORSIA-specific information and data to ICAO in accordance with the provisions of Annex 16, Volume IV and the timeline in its Appendix 1. It lists five ICAO documents that are referenced in Annex 16, Volume IV, including the CORSIA Central Registry information and data, CORSIA implementation elements, CORSIA aeroplane operator to state attributions, and CORSIA 2020 emissions.

Reporting Requirements for SCS annual report to ICAO

This document details the information that the SCSs will provide to ICAO on an annual basis, in line with the requirements listed in Table 1 of the ICAO document "CORSIA Eligibility Framework and Requirements for Sustainability Certification Schemes".

An Excel Template for this annual report is available [here](#).

Reporting requirements for SCS
Annual Report to ICAO
Version 3 - March 2023

The screenshot shows the ISCC website's "Valid certificates" page. It provides a list of all valid ISCC certificates and statements of conformity. The table below lists the certificate details:

Status	Certificate ID	Certificate Holder	Valid From	Valid Until	Suspended	Map	Certificate	Audit Report
Valid	ISCC-CORSIA-PLUS-Cert-DEIS-893201	mitsui b co, ltd, Chiyoda-ku, Tokyo, Japan	2023-03-15	2024-03-12				
Valid	ISCC-CORSIA-PLUS-Cert-DEIS-8932201	Marubeni Corporation, Tokyo, Japan	2023-02-20	2024-02-19				
Valid	ISCC-PLUS-Cert-ES216-20236103	GRUPO LAYNA GESTIÓN DE RESIDUOS, Horche, Guadalajara, Spain	2023-02-14	2024-02-13				
Valid	ISCC-CORSIA-Cert-DE300-06675223	Neste US, Inc., Houston, Texas, United States	2023-02-15	2024-02-12				

The screenshot shows the RSB website's "PARTICIPATING OPERATORS" page. It features a large image of an industrial facility and a list of participating operators. The page also includes a section for "Certificate Status" with definitions for Valid, Suspended, Terminated, Withdrawn, and Expired.

Thank you!

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