

ISCC CORSIA Certification for Sustainable Aviation Fuels





"Based on the recommendations of the Committee on Aviation Environmental Protection (CAEP), the Council also approved the organizations which are now eligible to certify the sustainability and life-cycle emissions values of CORSIA eligible fuels."

ICAO Press release "CORSIA offsetting kept on track for 2021 pilot phase" (Date: 26 November 2020)

The ISCC Association is a diversified multi-stakeholder non-profit organization with 157 members





The ISCC system is a well-established and credible certification program

System users in 100+ countries

28,000+
certificates
4,300
system users

32 certification bodies
500+
ISCC trained auditors

Training Programme
(98 Trainings so far for audits
and system users)

Innovative tools and procedures to facilitate audits



Use remote sensing to verify land use change

6 Voluntary
add-ons
to address specific
customer requirements

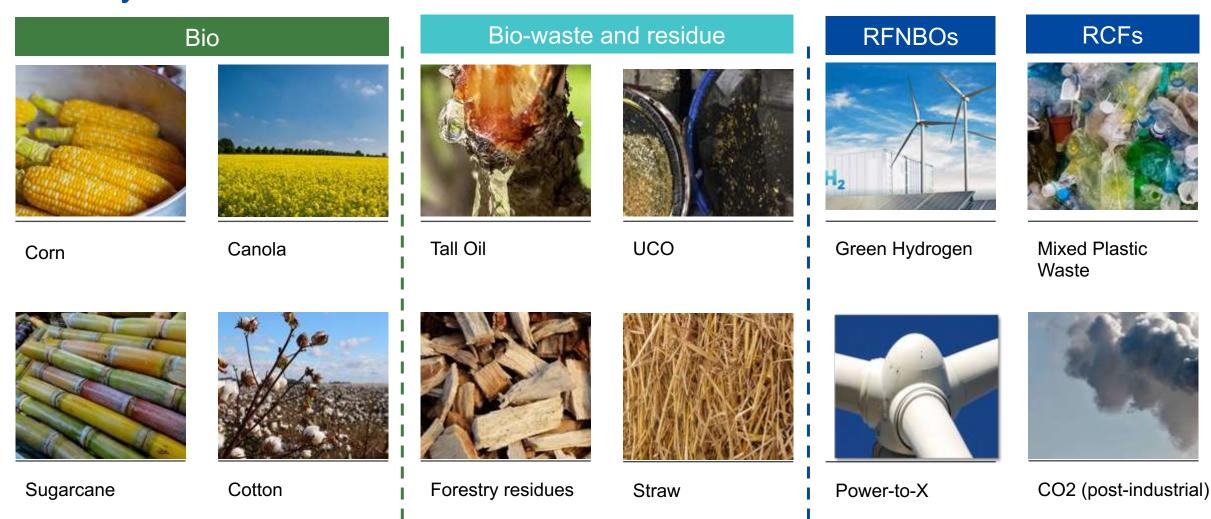
Stakeholder dialogue: 157 ISCC Association members

Discussion platform with 4 Regional and 3 Technical Committees

Integrity Programme 2 auditors



ISCC covers all types of raw-materials. RFNBOs and RCFs are already covered under ISCC PLUS





ISCC certification is based on long-term experience in the transport sector, applying GHG calculation methodologies and state-of-the-art technology



Over 83 million tons
of certified
feedstock basis
available which could be
used for alternative jet
fuels



4,300 companies using ISCC

Major fuel producers
are active users of the
ISCC certification system



ISCC has vast
experience in the
transportation
market and supports
the certification of
recycled carbon
fuels



Latest remote sensing technologies to support the verification of land use change and to ensure that supply chains are deforestation-free



comprehensive
experience with reliable
greenhouse gas
(GHG) emissions
calculations – over
1,700 certificates based
on actual GHG values



Depending on the market, system users can apply the ISCC EU, ISCC PLUS or ISCC CORSIA certification scheme

ISCC EU



- Applicable for biofuels inside the European Union
- Recognised by the European
 Commission to demonstrate compliance with the EU's sustainability criteria for biofuels set out in the RED and FQD

ISCC PLUS







- Application for voluntary and certain regulated markets
 - Energy and biofuels outside the European Union (e.g. Japan, Australia)
 - Industrial applications
 - Food and feed markets



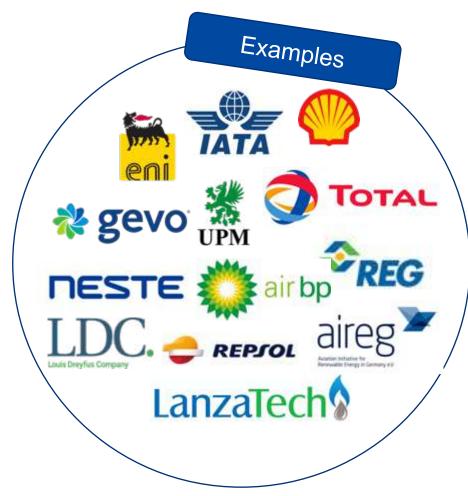


- Applicable for sustainable aviation fuels (SAF) under ICAO CORSIA
- To demonstrate compliance with the sustainability and GHG criteria for CORSIA eligible fuels



ISCC is engaged in supporting the aviation industry in achieving its climate targets

- Several ISCC members and system users are active in SAF
- ISCC is an active member of the CAEP Fuels Task Group that is working on CORSIA eligible SAF and LCAF (lower carbon aviation fuels)
- ISCC was involved in a scientific project analysing reporting requirements in supply chains of aviation fuel multi-blends
- ISCC is actively supporting various initiatives, and conducts pilots in supply chain certification
- ISCC currently has 6 certificates covering co-processed SAF, 2 covering HEFA, and 73 covering HVO which can be converted into HEFA





Sustainability certification schemes must fulfil a certain set of criteria to become recognized under CORSIA and certify CORSIA eligible fuels



General requirements for SCS



Documentation & Management & Transparency



GHG Reporting & Accounting



Annual reports, Monitoring & System Review



Complaint Procedure



Stakeholder Engagement



Risk Management Plan

Requirements set by SCS for economic operators



Mass Balance & Supply Chain Traceability



Assurance Level & handling Non-compliances



(Group) Audits & Certificate Issuance



Transparency on other SCS used



Accreditation & Auditing Standards

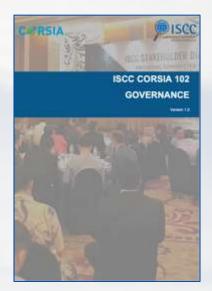


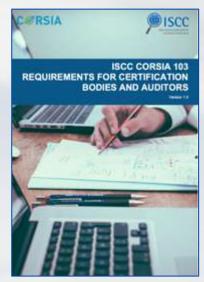
CORSIA Certification Requirements



The ISCC CORSIA system documents have been developed to address the requirements set by ICAO

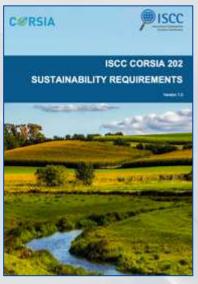


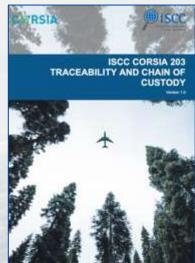


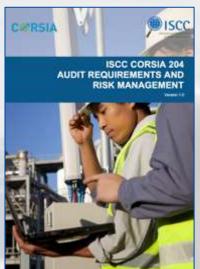


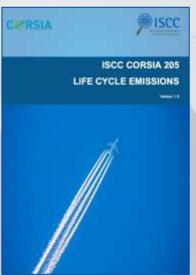


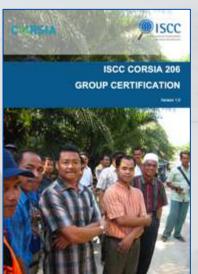
















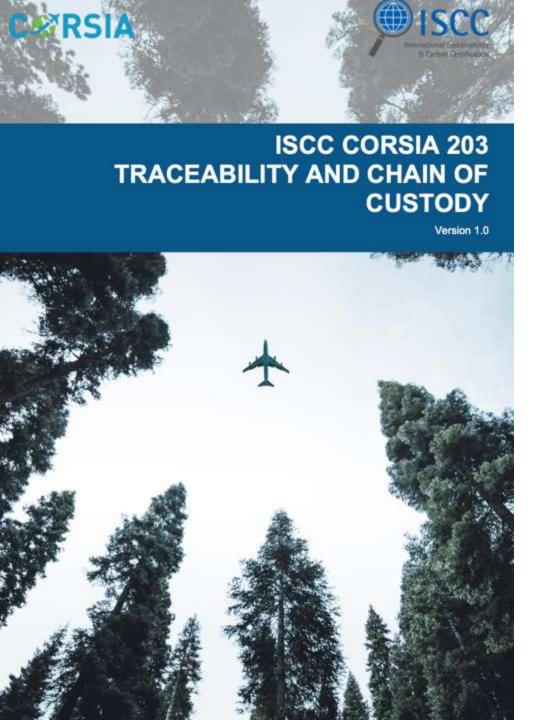
ISCC CORSIA 202 SUSTAINABILITY REQUIREMENTS

Version 1.0

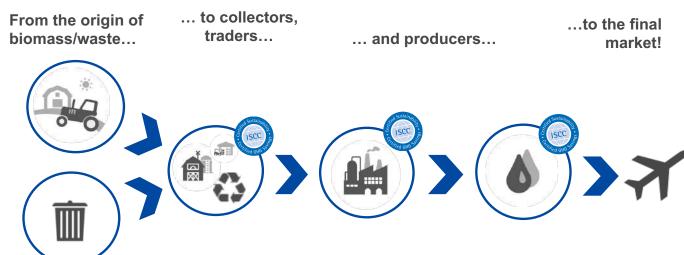


ISCC CORSIA covers all sustainability requirements requested by ICAO

- CORSIA eligible fuels should not be made from biomass obtained from land with high carbon stock
- No land use change of land with high carbon stock (primary forests, wetlands and peatlands) on or after 01 January 2008
- CORSIA sustainability requirements are fully covered by ISCC Principle 1
- ISCC Principles 2-6 even go beyond the sustainability requirements requested under CORSIA
- Additional sustainability requirements for CORSIA are being discussed (e.g. on water, soil, air, waste & chemicals, human & land rights, food security, etc.)
- ISCC Principles 2-6 already offer a good basis to meet additional CORSIA criteria in the future



ISCC CORSIA certification provides full traceability of information and materials along the supply chain





The use of sustainability declarations by all operators along the supply chain ensures a high level of traceability and transparency of information!





ISCC CORSIA 205 LIFE CYCLE EMISSIONS

Version 1.0

ISCC CORSIA allows for consistent and credible verification of emission reductions

- CORSIA eligible fuels (CEF) must achieve at least 10% net
 GHG emissions reductions compared to the baseline life
 cycle emissions values for aviation fuel on a life cycle basis
- The system boundary of the core LCA value calculation shall include the full supply chain of CEF production and use
- To calculate the life cycle emission value of a SAF (LS_f),
 GHG values are forwarded in the supply chain step-by-step
- Economic operators can apply default values or calculate actual values
- ISCC CORSIA provides the methodology for calculating, verifying and forwarding GHG emissions of each life cycle step
- A land use change (ILUC) LCA value is included in the CORSIA methodology

 $LS_f(gCO2e/MJ) = Core\ LCA\ value + ILUC\ LCA\ value$

The ISCC CORSIA standard is ready for take-off. All necessary documents are finalized



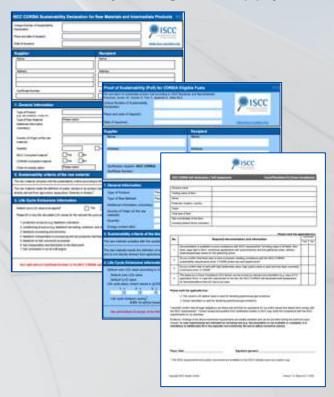
The ISCC CORSIA certificate shows compliance of the economic operator with all relevant CORSIA requirements

Logo of the Certification Body As developed by the International Civil Aviation Organization (ICAO) nal Suntainability and Carbon Cartifo risch is approved by the ICAO Council Address of the audit I s.a. This cartificate is valid from dit.mm pypy to dd.mm.yyy Please solect one collon Please select one option

The ISCC CORSIA audit procedures facilitate an efficient, consistent and reliable audit.



The ISCC CORSIA
sustainability declaration and
self-declarations allow for full
traceability along the supply chain



→ ISCC CORSIA System Documents are available for System Users on the ISCC Website

More information can be found on the ISCC website, including updates on further developments, conferences and publications





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Many thanks for your attention!

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