



# Support the Bio-Economy and Circular Economy with ISCC Certification Systems

Dr Jan Henke, Director, ISCC System  
ISCC Japan Conference, Tokyo, Japan  
21 January 2025

# ISCC covers various industry, market, and products in voluntary and regulatory markets

**ISCC EU**  
RFNBO/ RCF  
Refuel EU  
Aviation and  
Fuel EU  
Maritime

ISCC PLUS

ISCC CFC

ISCC CORSIA

ISCC PLUS Japan Biofuels  
mandate (US exports)

ISCC  
JAPAN  
FIT

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# ISCC - A Global Leader in Certification

*Addressing sustainability requirements across diverse feedstocks and markets*

**13000+**



Total  
Valid  
Certificates

**130+**



Total  
Countries

**5200+**



Valid  
PLUS  
Certificates

**67**



Current  
Cooperating  
certification  
bodies

**1800+**



Qualified  
ISCC  
Auditors

**220+**



ISCC training  
courses  
conducted

**300+**



Current ISCC  
association  
members





**Active multi-stakeholder dialogue to cultivate innovative sustainability solutions**



**Commitment to sustainable, traceable, deforestation-free & climate-friendly supply chains**



**Continuously improving standards to meet global sustainability requirements**



**Further development of the circular economy and the bioeconomy**



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# The ISCC Association: 311 Engaged Members\*

*Multi-Stakeholder Governance of the ISCC System*



6 Members  
based in  
Japan

**AsahiKASEI**

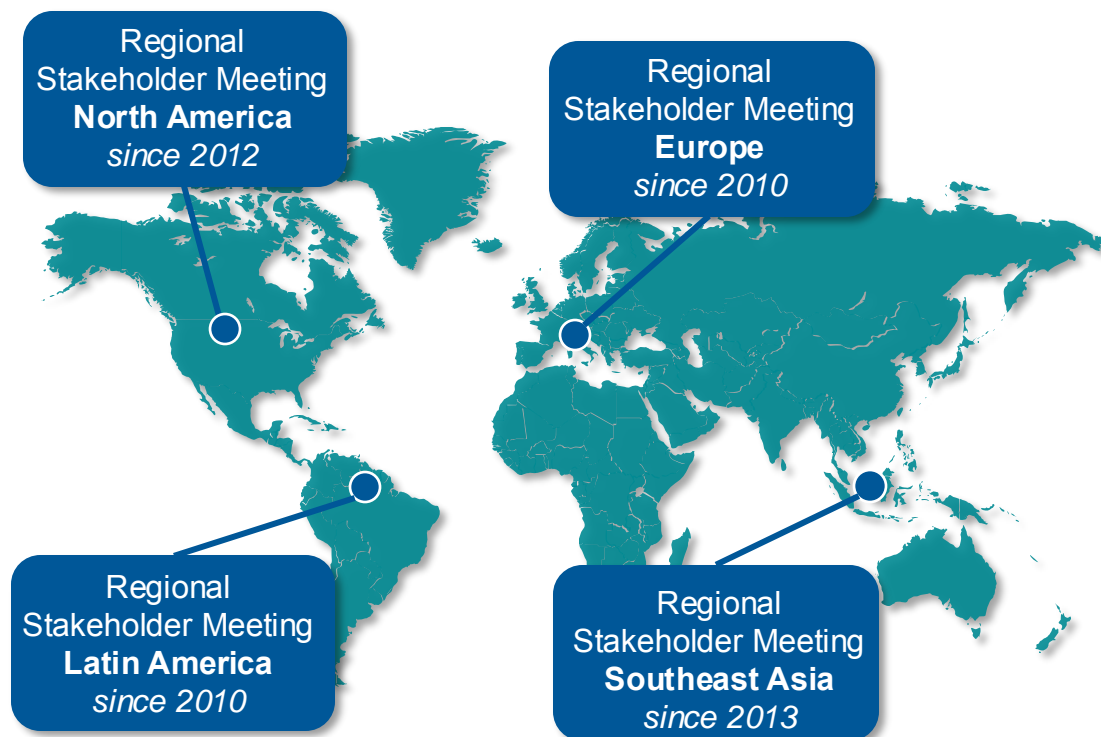
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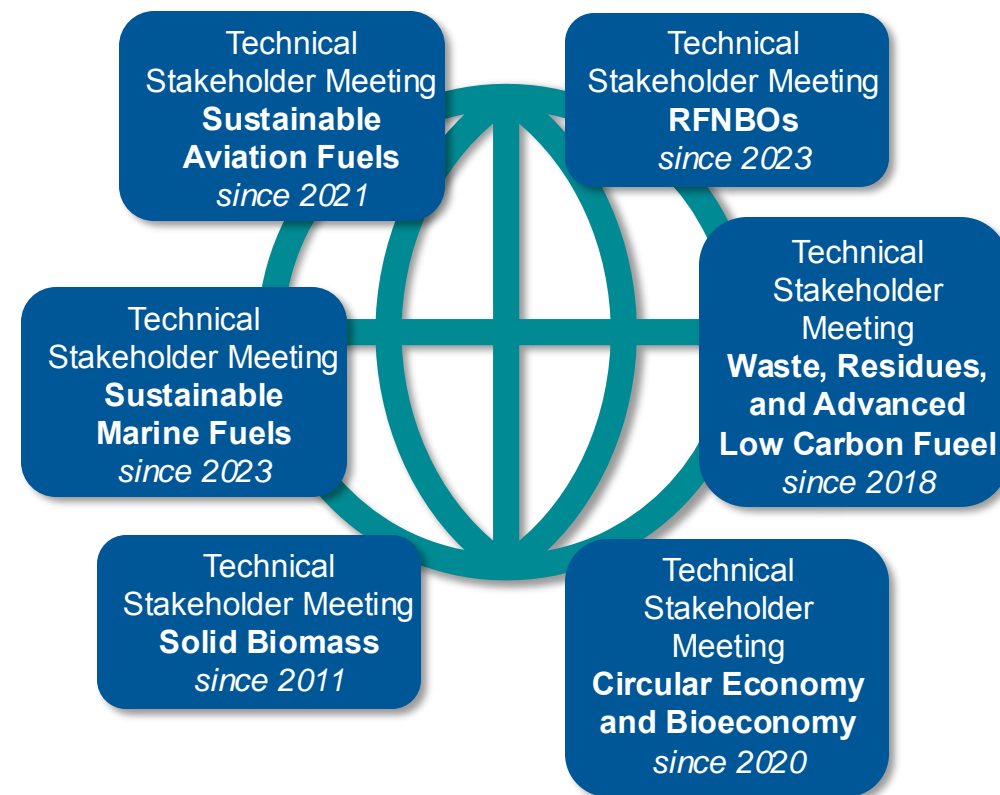
\*As of January 2025. Only Members who have given consent for showing their logos are included here.  
A complete list of Association Members can be found on the [Membership List](#) web page.  
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# The ISCC Association is responsible for the global multi-stakeholder dialogue

## Regional Stakeholder Committees



## Technical Stakeholder Committees



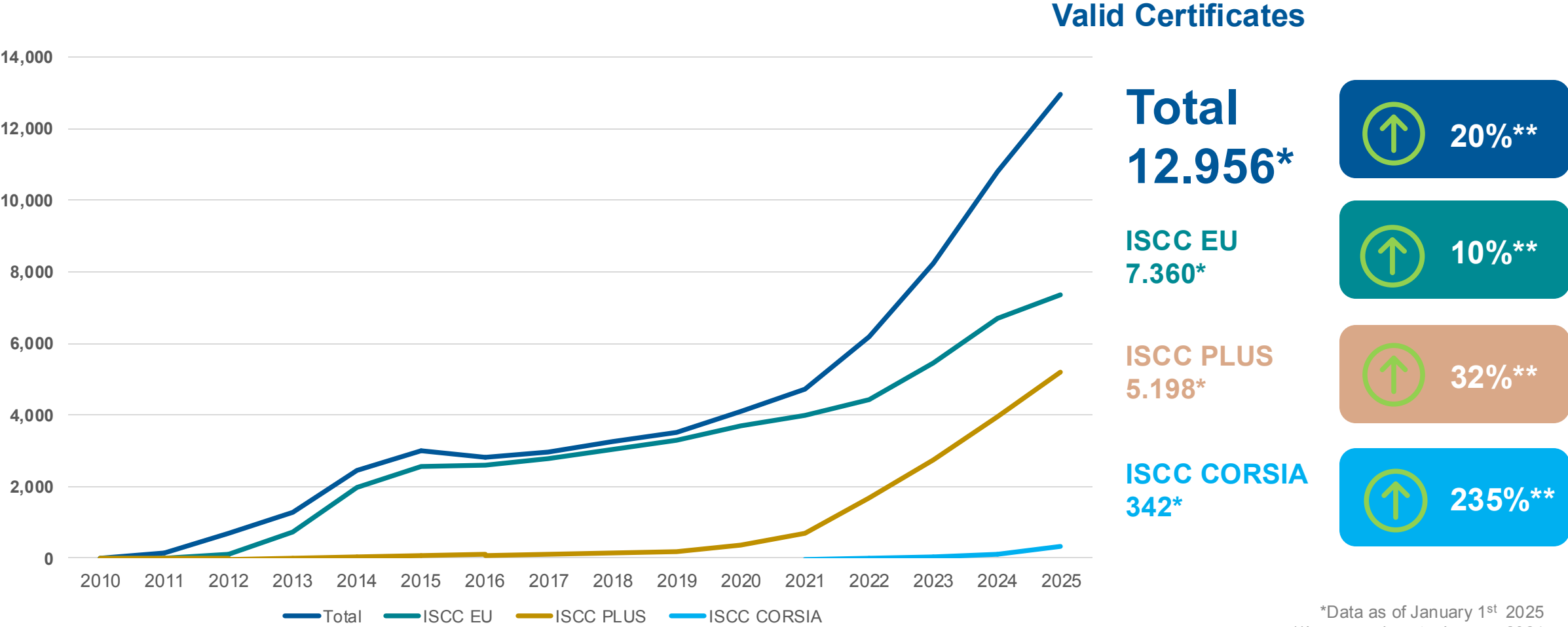


# Get involved!

## Become a member of ISCC Association

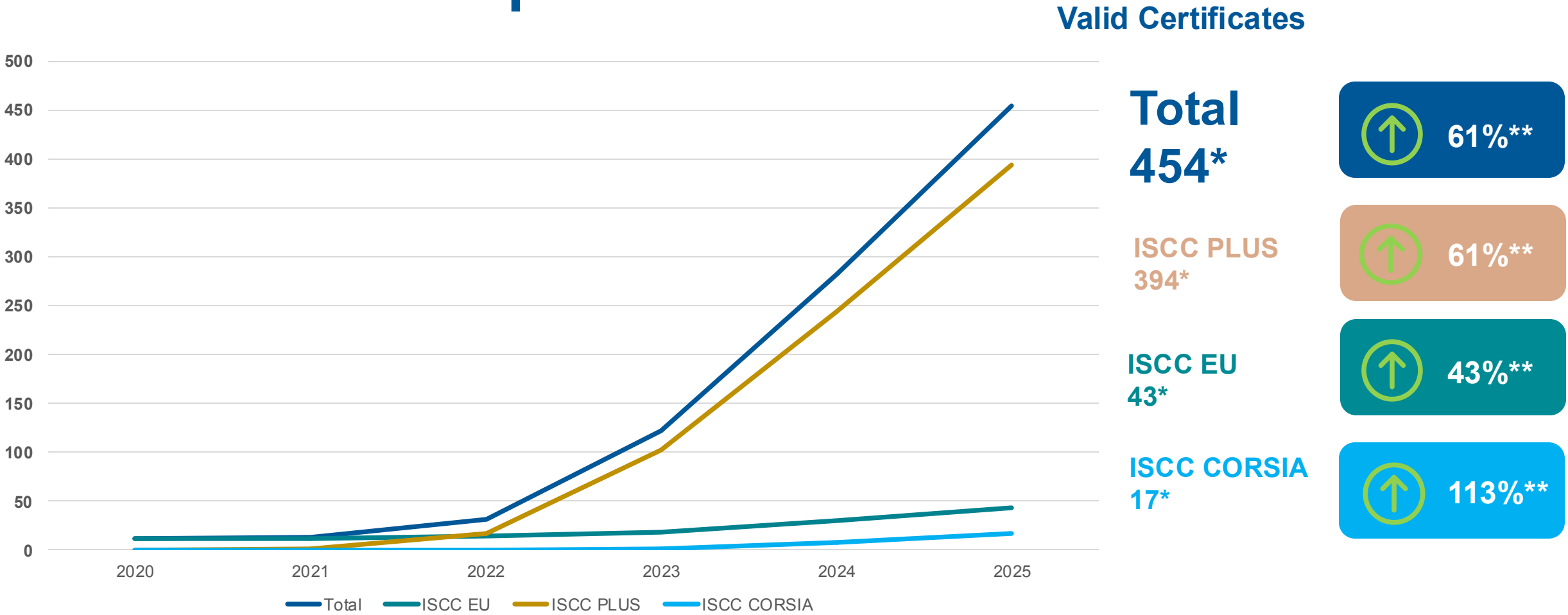


# Development of ISCC EU, PLUS, and CORSIA certification



\*Data as of January 1<sup>st</sup> 2025  
\*\*In comparison to January 2024  
\*\*\*The number of total certificates also includes certificates of other schemes, e.g. Japan fit

# Development of ISCC EU, PLUS, and CORSIA certification in Japan



\*Data as of January 1<sup>st</sup> 2025  
\*\*In comparison to January 2024

# ISCC EU for energy markets and transportation

Certification based on legal requirements for:



Production and cultivation



Traceability & Chain of custody



GHG emissions calculations and savings

- Applicable for **sustainable fuels** used for transport, electricity, heating and cooling in the European Union
- To demonstrate **compliance** with the EU's sustainability criteria for biofuels, bioliquids and biomass fuels set out in the Renewable Energy Directive II (RED II)

**Covered  
markets**



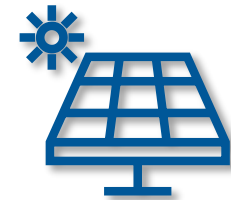
Road  
transport



Aviation



Maritime



Power-to-x



# The ISCC RFNBOs and RCF approach is recognized by the EU COM since December 20<sup>th</sup> 2024

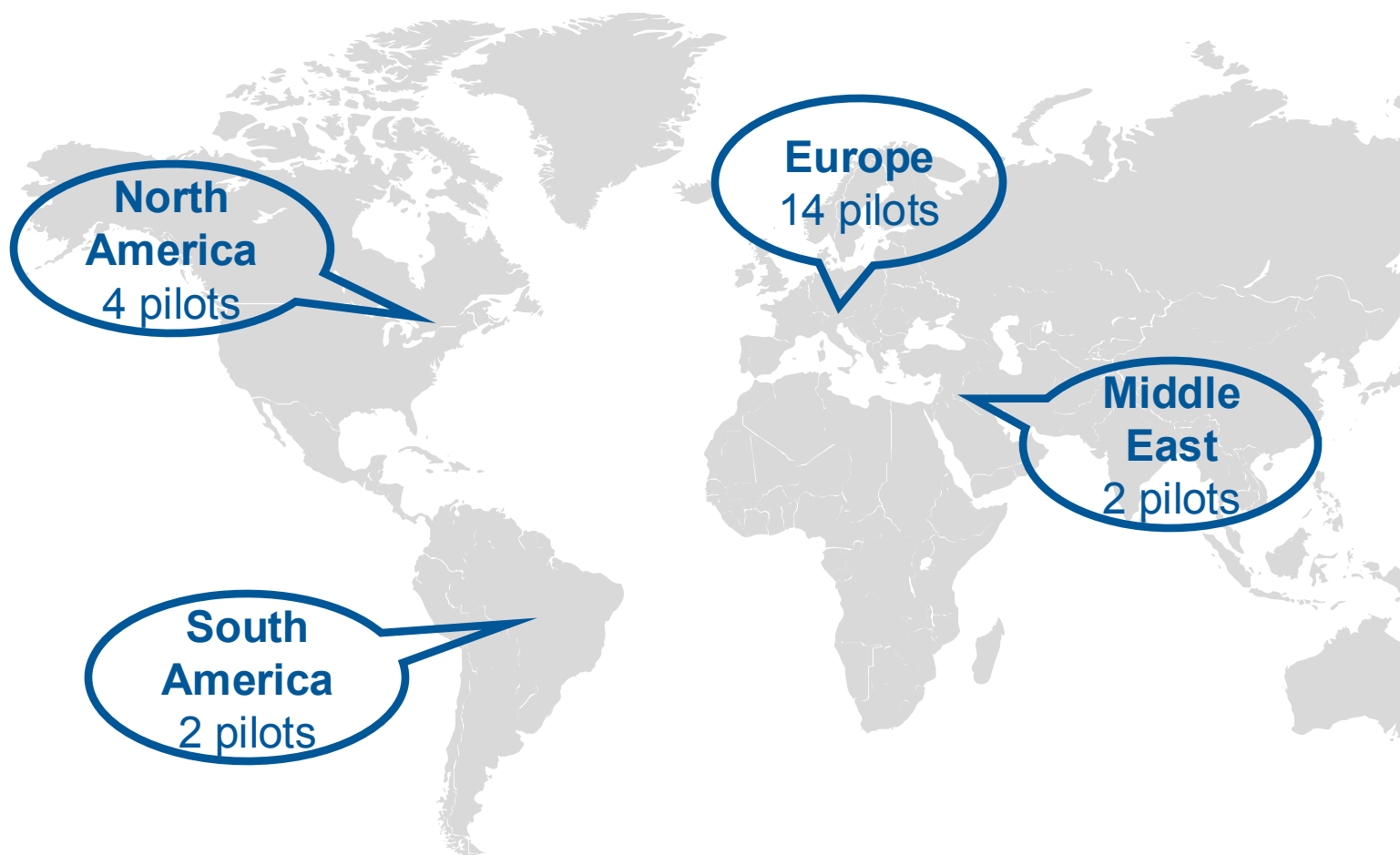
ISCC has two dedicated system documents for RFNBOs certification

The ISCC EU system documents are also valid for RFNBOs

## First RFNBOs certificates already issued, under the DK pre-recognition

Status	Certificate ID	Certificate Holder	Scope*	Raw Material	Add-Ons**	Products	Valid From	Valid Until	Suspended	Issuing CB
✓	EU-ISCC-Cert-DK220-219592024	GrønGas, Hjørring A/S, Hjørring, Denmark	LP, OT	Renewable Electricity, Carbon dioxide (CO2)		RFNBO Hydrogen, RFNBO LNG	2024-11-26	2025-11-25		Baltic Control Certification, Risskov, DK
✓	EU-ISCC-Cert-DK220-219582024	Grøn Brint A/S, Hjørring, Denmark	OT	Renewable Electricity		RFNBO Hydrogen	2024-11-20	2025-11-19		Baltic Control Certification, Risskov, DK

# ISCC has already been involved in many RFNBOs pilot projects, partly in direct cooperation with Meo Carbon Solutions



- ISCC is directly involved in pilots, such as the RVO pilot conducted by the Dutch ministry
- ISCC's sister company Meo Carbon Solutions has supported many customers with different RFNBO pilot projects, including:
  - GHG calculations
  - Certification set-up and electricity requirements verification
  - Certification support for voluntary markets (already possible)

Contact [info@meo-carbon.com](mailto:info@meo-carbon.com) for more information

# Rising demand for Sustainable Aviation Fuels (SAF) and their ISCC certification



- SAF markets will grow tremendously
  - Driven by **regulatory frameworks** (e.g. **ReFuelEU Aviation**, **ICAO CORSIA**) that require sustainability certification
  - **Voluntary market** complements the demand
- Big ISCC growth in **SAF certificates**
  - More **SAF players in the ISCC Association**
- **Support of PtL SAF development** in regulation
  - The **ISCC Credit Transfer System and Registry** went live in April 2024

# Updates on ISCC certification for Sustainable Marine Fuels (SMF)

- Increasing interest. Driven by **regulatory developments**
  - **The EU mandates certification for SMF** under FuelEU Maritime and EU ETS (starting 2025).
  - **ISCC certifies SMF in the market** (mostly FAME, HVO and biomethanol)
- 
- ISCC part of EU COM-led working group on **marine fuel certification**
  - ISCC joins IMO working group on **LCA Guidelines and certification**
- 
- **Many of the largest shipping companies are ISCC members**
  - Currently available biomarine fuel is almost entirely ISCC certified

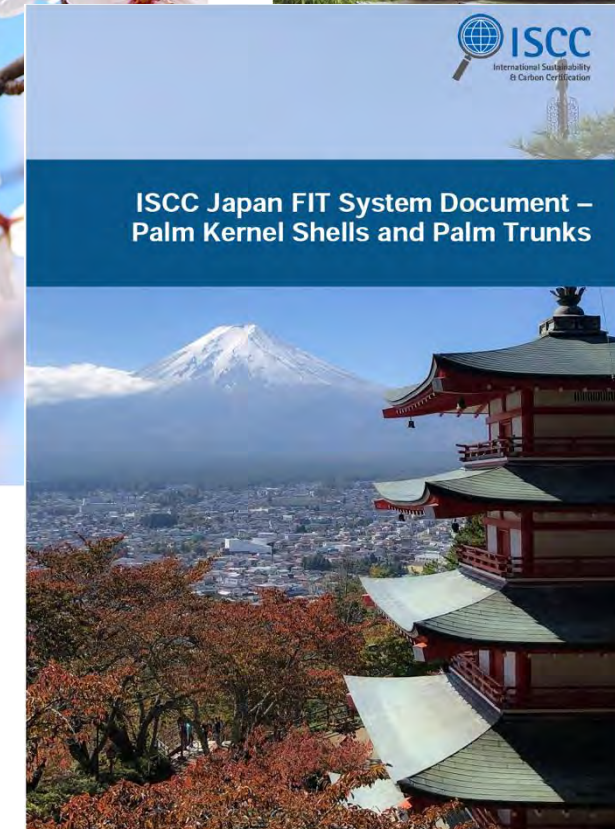




# ISCC Japan FIT



- Certification of renewable feedstocks destined for power generation in Japan
- Japan FIT (feed-in-tariff) system: **power plants receive incentives for producing power from eligible biomass**
- Recognition from Japan's Ministry for Economy, Trade and Industry (METI) since April 2022

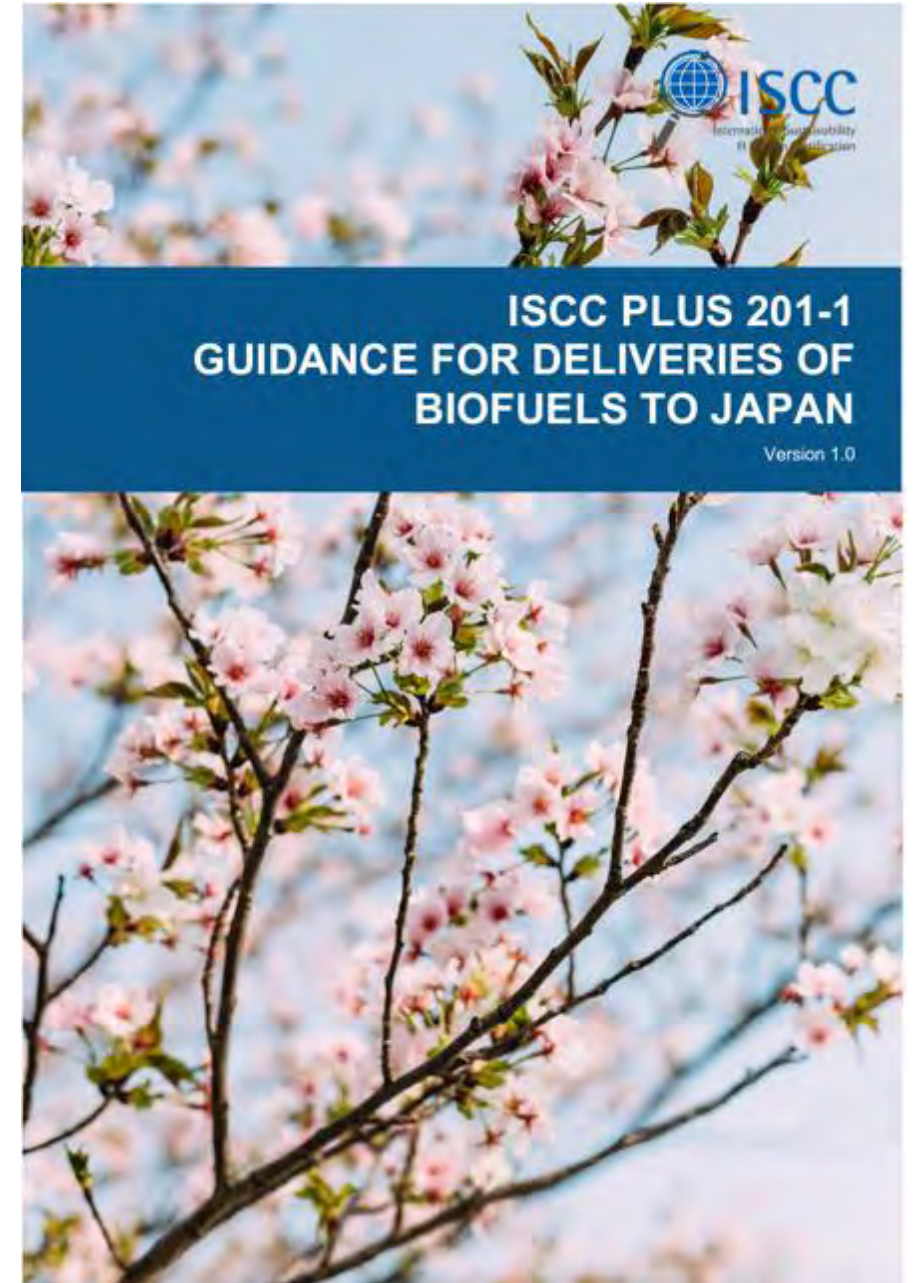






# ISCC PLUS is recognised by the METI for Japan Biofuels mandate

to verify compliance with the sustainability requirements for biofuels particularly ethanol derived from U.S. corn and Brazilian sugarcane, to Japan under its biofuel mandate



# ISCC PLUS in a nutshell



**Broad raw materials & final market coverage**



**Several Chain of Custody Options**



**Chemical and mechanical recycling routes  
for Circular Economy covered**



**End-to-end- certification**



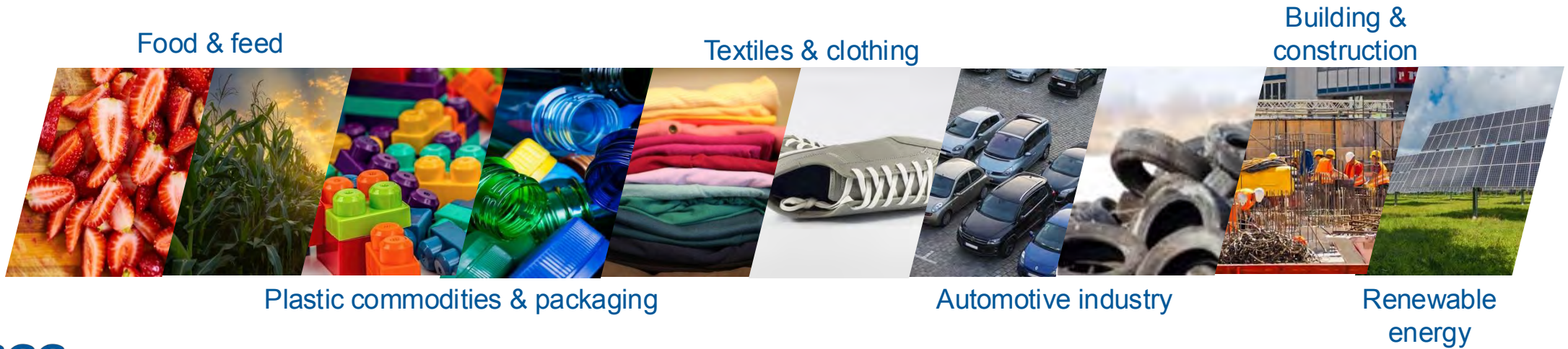
**Licensing for the Brand Owners**

# ISCC PLUS certified feedstocks covers all final markets

Raw material  
categories



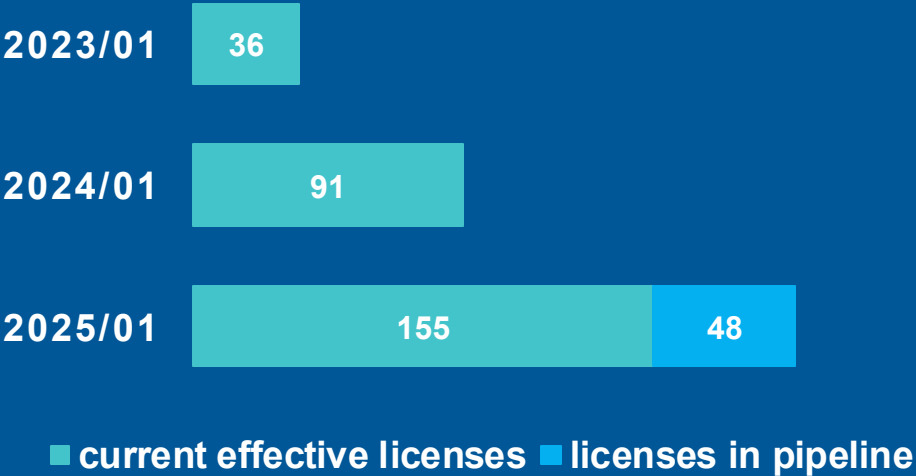
Markets\*





# The ISCC Licensing Scheme is an approach for brand owners to use ISCC logos and/or claims

## License Development



59,300+

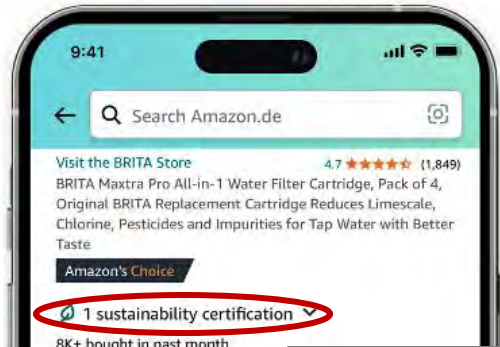
ISCC certified products on the market



# ISCC PLUS collaborates with Amazon on Climate Pledge Friendly program



“Climate Pledge Friendly highlights products with trusted third-party certifications that meet sustainability standards.”





### 1 sustainability certification

Products with reliable sustainability certifications. [Learn more](#)

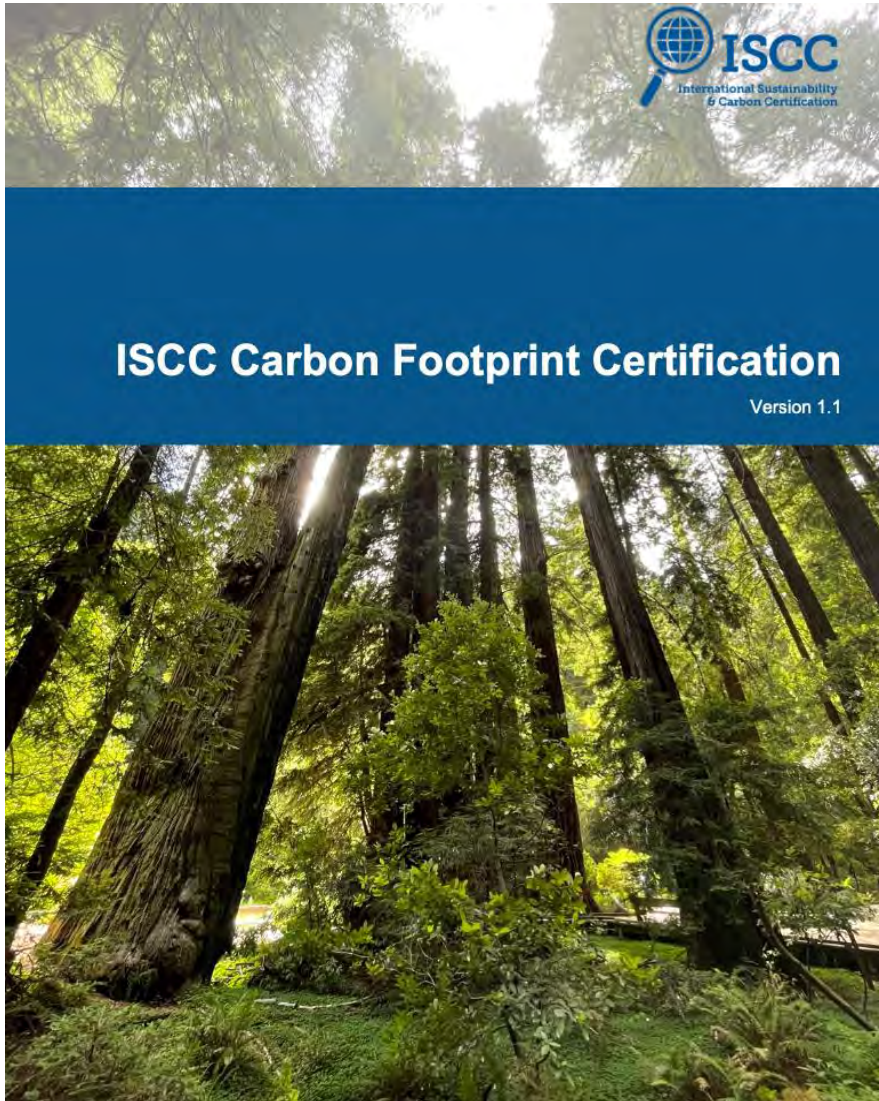
Product Certification (1)



**ISCC PLUS** certified products are created using raw materials such as recycled plastics and bio-based materials, which can reduce fossil fuel consumption.

ISCC PLUS certified products now can be found in:  
Australia, Belgium, Brazil, Canada, France, Germany, Italy, Mexico, Poland, Spain, Sweden, UK, US

# The ISCC Carbon Footprint Certification (CFC) will allow to assess the environmental benefit of products independent of the feedstock



- Certification of product carbon footprints (PCFs)
- Low carbon claims for products with improved carbon footprint
- Module can be used on its own or combined with ISCC PLUS feedstock
- Applicable for co-processing setups with annual verification of mass balance and volumes





Rubber



Oil Palm



Soy



Coffee



Cacao



Cattle



Wood

## Example: ISCC EUDR Add-on

- EUDR Add-on is a comprehensive solution to help companies meet EUDR compliance and offers:
  - Deforestation analysis
  - Risk assessment
  - Legality check
  - Traceability
- EUDR Add-on is available for the commodities oil palm, soy, rubber and their products
- EUDR Add-on is compatible with ISCC EU and PLUS certification
- EUDR Add-on certification can be part of the next audit and is an easy and cost-effective method for EUDR compliance



Get in contact with ISCC to get started!

# THE FOOD SECURITY STANDARD (FSS)



- Developed to help the **private sector** to respond to food insecurity.
- WWF, WHH and Centre for Development Studies of Bonn University developed the standard.
- Aims to foster zero hunger at the **production level of global agricultural value chains**.
- Based on the **human right to adequate food**.
- FSS certification allows companies to **make claims towards customers and other stakeholders**.
- Support implementation: guidelines of Respecting Human Rights in Responsible Supply Chains **in Japan**.

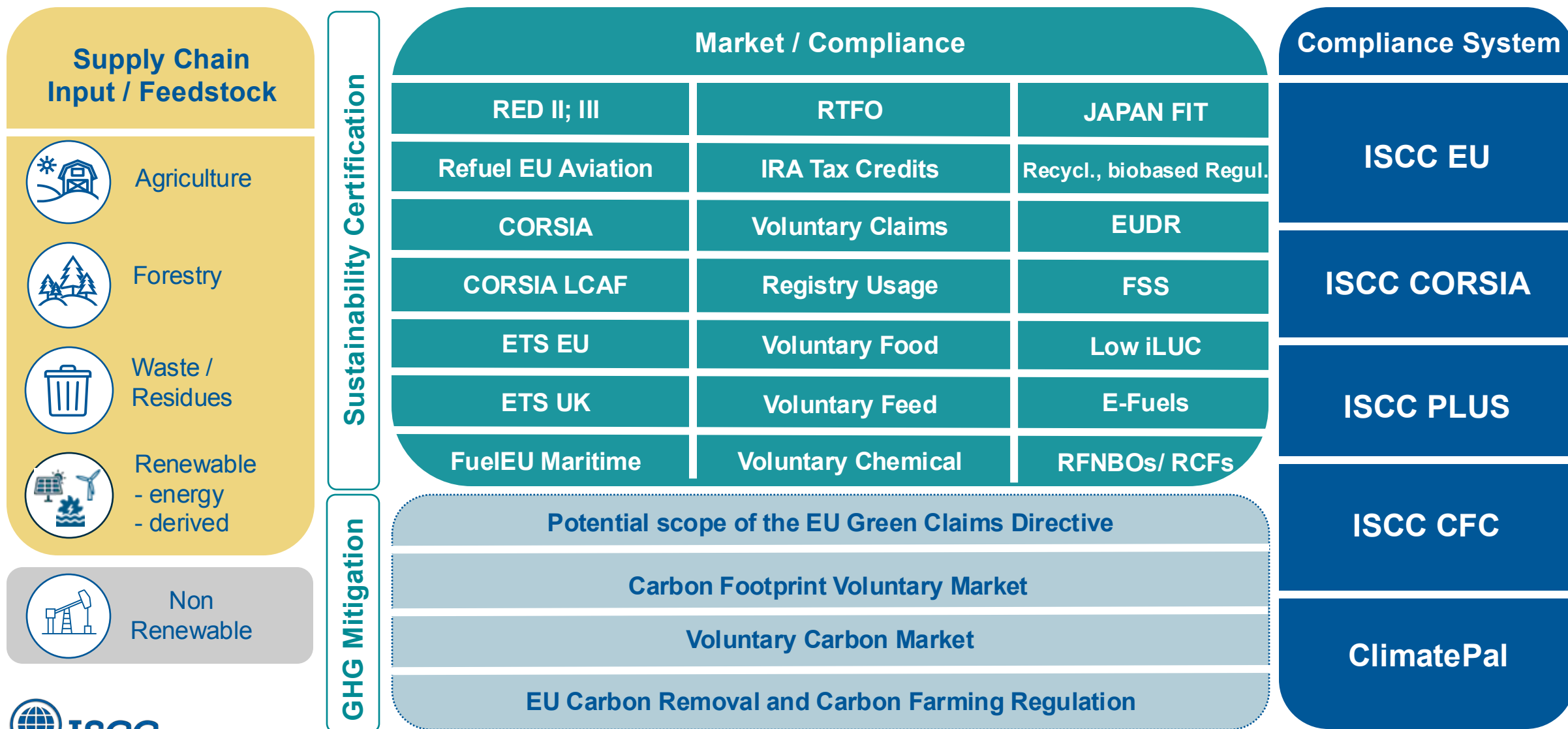
IMPLEMENTED BY



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# Unlocking Untapped Market Potentials with ISCC – Potential Overview





# ISCC Integrity Program key for a credible system

- Complete audits or specific focus (CoC, GHG etc.)
- ISCC Integrity Auditors
- Choice of Candidates
  - Randomly / risk basis after risk evaluation
  - complaints
  - Report of non-conformity or fraud
- On a global scale
- On-site/remote
- Results documented in Audit Report
- Consequences: Conditions for recertification, sanctions (e.g. suspension, withdrawal of certificate)



# ISCC PLUS Training

## On-site registration possible



システムの概要、サプライチェーン、認証 & 監査手続き			加工流通の過程 / ライセンス、ロゴ & 適格性宣言		
時間	議題	担当者	時間	議題	担当者
08:30 - 09:00	登録 & 懇親会	ISCC	08:30 - 09:00	登録 & 懇親会	
09:00 - 09:10	トレーニングへの歓迎と導入	ISCC	09:00 - 09:10	トレーニング2日目への歓迎と導入	ISCC
09:10 - 09:40	循環経済とバイオエコノミーのためのISCC PLUS	ISCC	09:10 - 10:10	加工流通過程の管理 (Chain of Custody) に関するオプション - 収率と帰属の計算と認証	ISCC
09:40 - 10:40	ISCC PLUSにおけるサプライチェーン、システムの要素、プロセスと原材料 (I)	ISCC	10:10 - 11:30	グループワーク (II): マスバランスの計算と認証、収率と帰属	参加者 + ISCCのサポート
10:40 - 11:00	コーヒーブレイク		11:30 - 12:00	結果発表	参加者
11:00 - 12:00	ISCC PLUSにおけるサプライチェーン、システムの要素、プロセスと原材料 (II)	ISCC	12:00 - 01:00	昼食	
12:00 - 12:30	ISCC PLUSにおける廃棄物と残留物	ISCC	01:00 - 02:00	帰属製品におけるロゴ、適格性宣言とISCCライセンススキーム	ISCC
12:30 - 01:30	昼食		02:00 - 02:30	グループワーク (III): ISCCのロゴと適格性宣言の適用	参加者 + ISCCのサポート
01:30 - 03:00	グループワーク (I): 化学産業と下流部門における複雑なサプライチェーンの認証	参加者 + ISCCのサポート	02:30 - 02:55	結果発表	参加者
03:00 - 03:20	結果発表	参加者	02:55 - 03:30	トレーニングの総括とフィードバック	ISCC
03:20 - 03:45	コーヒーブレイク				
03:45 - 04:25	認証と監査手続き	ISCC			
04:25 - 04:30	総括	ISCC			



## ISCC PLUS Training

### 循環経済とバイオエコノミー

ISCC Academy  
1月22日 - 23日, 2025  
ホテルグランドニッコー  
東京 台場

### 概要

ISCC PLUS認証制度に関する包括的  
情報

加工流通過程の管理 (Chain of Custody) に関するオプション、マス  
バランス、収率計算及び帰属的アプ  
ローチ

ISCC監査の要求事項とサプライチェ  
ーンにおけるISCCの適用

ロゴ、適格性宣言とISCCのライセン  
ススキーム





# Thank you!

ISCC System GmbH

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[www.iscc-system.org](http://www.iscc-system.org)

