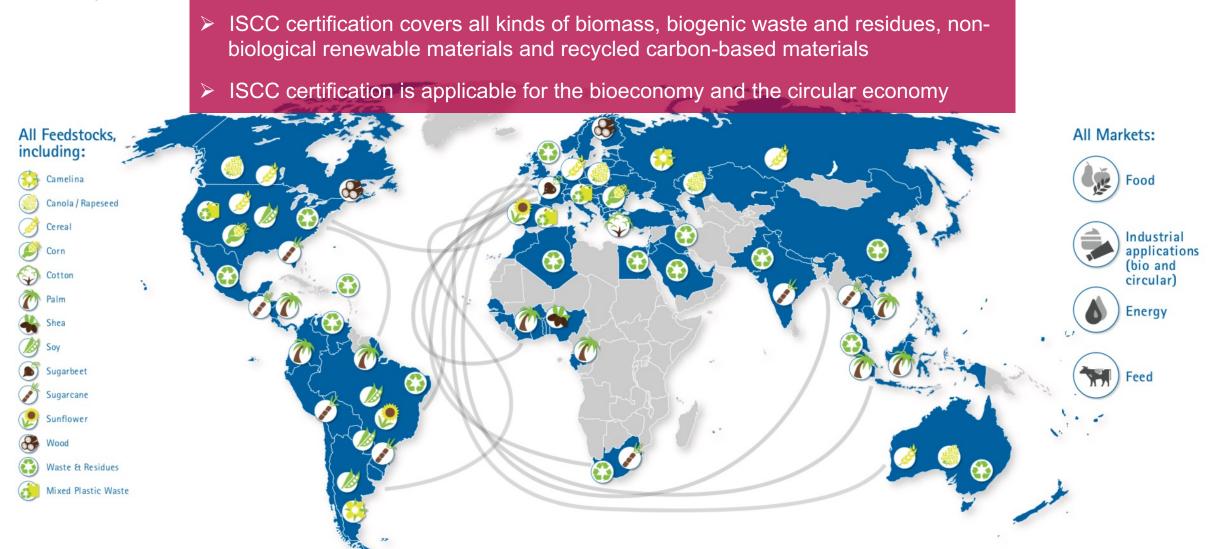


### ISCC Overview and RFNBO Certification Process





ISCC offers certification for sustainable, traceable and deforestation-free supply chains



### Some facts and figures about ISCC

- ISCC is an independent multi-stakeholder initiative
  - The ISCC System is governed by the legally registered ISCC Association (ISCC e.V.)
  - Stakeholders are involved in the continuous development of ISCC
- The ISCC Association includes members from the three stakeholder groups:
  - Raw material producers and processors
  - Trade, logistics and users
  - NGOs, social affairs, science and research, public sector
- ISCC operates three certification systems, application depending on the market
  - ISCC EU for sustainable fuels used for transport, electricity, heating&cooling in the European Union
  - ISCC PLUS for food and feed, industrial applications, energy and biofuels outside the European Union
  - ISCC CORSIA for sustainable aviation fuels under ICAO CORSIA
- 40,000+ ISCC certificates in 100+ countries have been issues since its start of operation in 2010
  - Currently 7,300 valid certificates
- Extensive ISCC training programme for auditors and system users
  - 750+ auditors have been trained
  - Training covers various topics (e.g. Basic Training, Waste&Residues, GHG, ISCC PLUS, ISCC CORSIA)
- The ISCC Integrity Programme is a strong tool to monitor the activities of CBs, auditors and economic operators and to improve the ISCC scheme



## The ISCC Association has currently 214 members – Members are constantly growing and all stakeholder groups are represented





### ISCC registration and certification process





## ISCC is cooperating with 50 certification bodies (CBs) from 23 countries. CBs can conduct audits globally



























































































Contact information for all cooperating certification bodies can be found on the ISCC webpage.



### ISCC offers a competitive fee structure for System Users

#### 1. Certification fee:

- Per certificate issued (usually per year)
- Based on annual turnover in Euros

#### 2. Quantity fee:

- Per ton of material declared/sold as sustainable (since previous audit)
- Reduced fee for members

Fee structure valid since 1 September 2022

Fees for ISCC certified System Users		
Type of fee	Classification	Fee
Certification fee*	< 3 Mill. € / year	200€
	< 60 Mill. € / year	500€
	< 150 Mill. € / year	700€
	< 500 Mill. € / year	1.000 €
	> 500 Mill. € / year	2.000 €
Quantity- dependent fee**	First gathering points, individually certified farms, collecting points, individually certified points of origin, central offices, traders, individually certified FPR	0,01 € / mt
	Processing units	0,10 € / mt
	Logistic centers, individually certified warehouses	n/a
	Legal entities with ISCC Association membership (including fully owned subsidiaries)	20% reduction of total quantity fee
	Minimum quantity-dependent fee***	250€

<sup>\*</sup>The **certification fee** is due once per issued certificate, irrespective of the number of scopes covered by certification. It is based on the total annual turnover in Euro (€) of the registered legal entity. The total turnover includes turnover of sustainable **and** non-sustainable material.



<sup>\*\*</sup>The **quantity-dependent fee** is to be paid for the amount of outgoing material declared by the System User as sustainable according to ISCC. It is due per certified scope, with the respective fee applicable to the quantities sold under that scope.

<sup>\*\*\*</sup>ISCC will invoice a **minimum fee** of 250 € in case the System User declares zero sustainable output material, or if the declared sustainable output amounts to less than 250 €. The minimum fee applies irrespective of a membership in the ISCC Association.

## Certification of supply chain elements required. Information on sustainable material is forwarded and traced in supply chains via Sustainability Declarations

#### Simplified **Feedstock sourcing Processing and distribution** supply chains **Agricultural** and forest biomass and residues Farm/Plantation **First Gathering** Point. Waste, Processing Unit Trader/Storage **Processing Unit** Trader/Storage **Market** residues, renewable nonbio feedstocks **Point of Origin** Collecting **Point** Self-Sustainability Sustainability Sustainability Sustainability Sustainability Declaration



Declaration

Declaration

Declaration

Declaration/Proof

of Sustainability

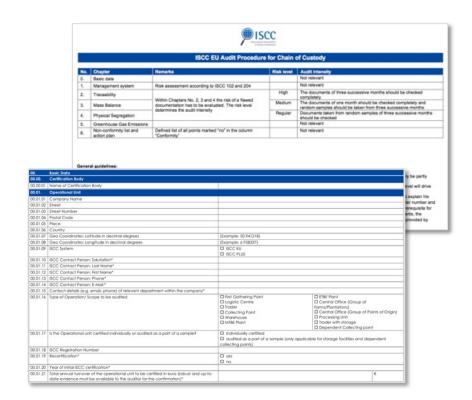
Declaration/Proof of Sustainability

## The System Documents build the basis for the ISCC certification. Audit procedures must be used by auditors during the audit

ISCC EU **System Documents** contain certification requirements and processes for certification bodies and for System Users



ISCC EU Audit Procedures are "checklists" of the certification requirements into checklists that must be completed during the audit

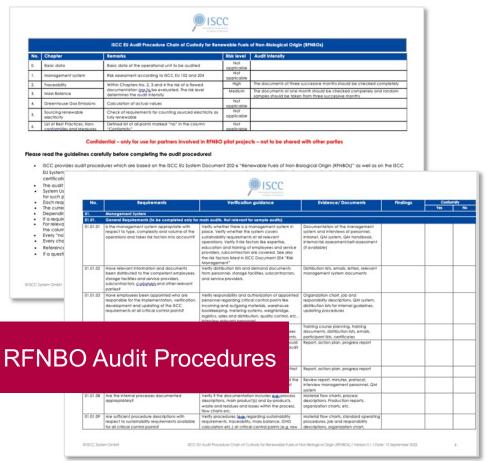




## ISCC has set up a RFNBO certification approach that are currently subject to pilot audits organised by RVO and the certification body QS

- The ISCC EU RFNBO documents contain the specific requirements relevant for RFNBOs
- Based on the outcome of the pilot audits and the final legislation relevant updates will be made in the documents





## The requirements for ISCC EU certification of RFNBO supply chains are based on the RED II and Draft Delegated Acts



- As defined by the REDII (Directive 2018:2001):
  - Renewable fuels of non-biological origin (RFNBOs): renewable liquid or gaseous fuels which are used in the transport sector other than biofuels or biogas, the energy content of which is derived from renewable sources other than biomass.
- On May 20<sup>th</sup> 2022:
  - Two draft delegated acts and an annex published by EC
  - Provide guidance on RFNBOs and RCF (recycled carbon fuels)
  - Focus on electricity sourcing and GHG calculation methodology
- Currently, these documents are only available as drafts.
  Certification requirements might change once the legislation is finalized.

Draft delegated regulation on establishing a Union methodology setting out detailed rules for the production of renewable liquid and gaseous transport fuels of non-biological origin

Draft delegated regulation on establishing a minimum threshold for greenhouse gas emissions savings of recycled carbon fuels and by specifying a methodology for assessing greenhouse gas emissions savings from renewable liquid and gaseous transport fuels of non-biological origin and from recycled carbon fuels



### The criteria for renewable electricity for RFNBOs follow four principles

Renewability

The electricity must be produced exclusively from renewable sources excluding bioenergy.

**Additionality** 

Additional deployment of renewable electricity is needed for RFNBO production to achieve net GHG savings.

Temporal correlation

There should be a temporal correlation between the generation of renewable electricity and the RFNBO production.

Geographical correlation

There should be a geographical correlation between the generation of renewable electricity and the RFNBO production.

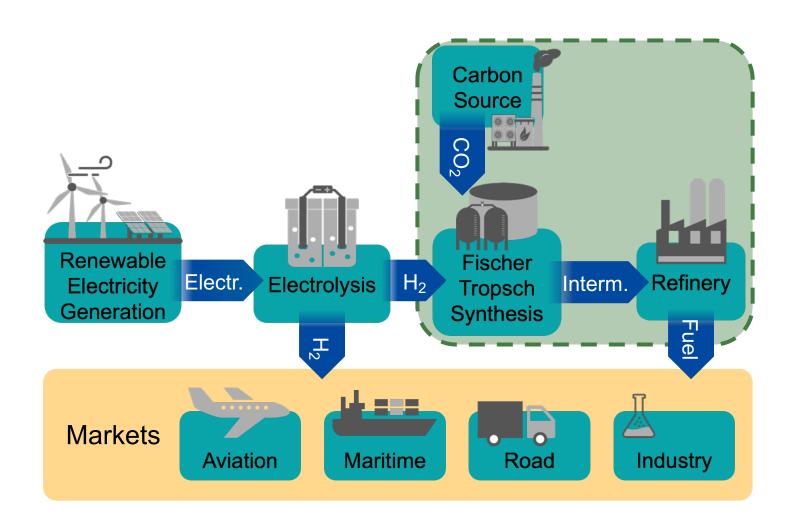
Certification approach for RFNBOs (e.g.: ISCC EU)

May influence voluntary certification schemes in future (e.g.: ISCC PLUS)

Source: Draft delegated regulation on establishing a Union methodology setting out detailed rules for the production of renewable liquid and gaseous transport fuels of non-biological origin



## The ISCC RFNBO certification approach covers hydrogen and any derivatives. It will be applicable in RED II regulated and other markets

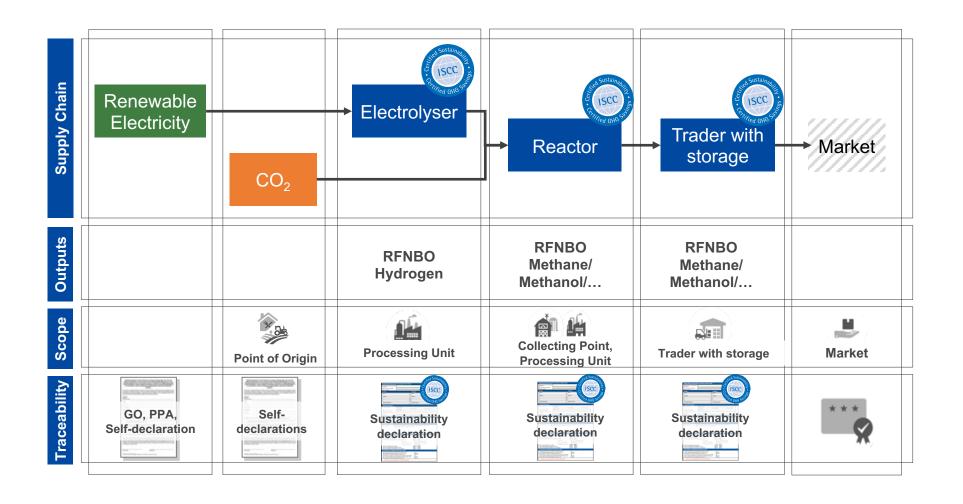


Example

An exemplary supply chain for RFNBO production. Hydrogen may be used directly as fuel or serve as an intermediate for other RFNBOs.



### ISCC approach to cover a RFNBO supply chain by certification





### Electricity supply options for RFNBO production

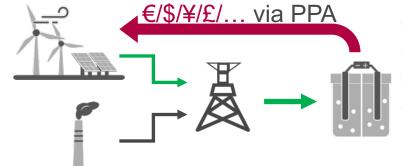
RE = renewable electricity

PPA = power purchase agreement



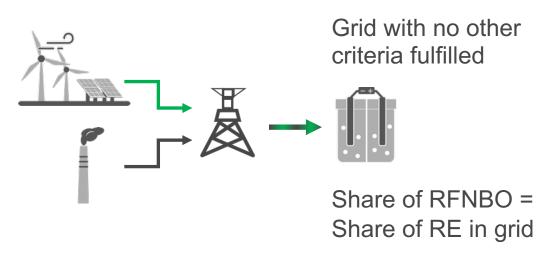
#### Direct line:

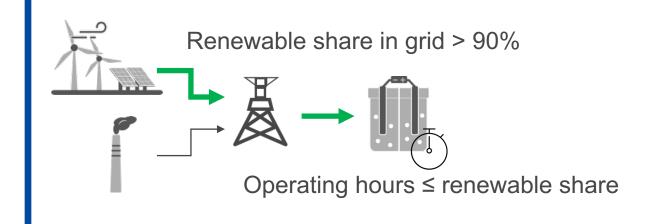
- Renewability
- Additionality



#### Grid with RE-PPA:

- Renewability
- Additionality
- Geographical correlation
- Temporal corr.







# GHG accounting methodology for renewable fuels of non-biological origin (RFNBOs)

#### Emissions from production and use of RFNBOs

#### GHG emissions shall be calculated as per:

$$E = e_i + e_p + e_{td} + e_u - e_{ccs}$$

#### Where:

E = total emissions from the use of the fuel

 $e_i = e_{i \text{ elastic}} + e_{i \text{ rigid}} - e_{ex-use}$ : supply of inputs

e<sub>i elastic</sub> = emissions from elastic inputs

e<sub>i rigid</sub> = emissions from rigid inputs

e<sub>ex-use</sub> = emissions from inputs' existing use or fate

 $e_p$  = emissions from processing

e<sub>td</sub> = emissions from transport and distribution

e<sub>u</sub> = emissions from combusting the fuel

e<sub>ccs</sub> = emission savings from carbon capture and geological storage

#### Differences in comparison to REDII

- A new formula element summarizes and accounts for any inputs used → (e<sub>i</sub>). There is no differentiation made between feedstock, processing input, residue, waste, coproduct.
- The important question is: is the input rigid or elastic?
- **Elastic:** when the supply can be adjusted to meet higher demand (e.g., hydrogen input, electricity input to the plant)
- Rigid: when the supply of these inputs cannot be expanded to meet increased demand (e.g., the carbon used for RCF production)
- There is no feedstock factor to be applied
- Furthermore, emission savings from carbon capture and replacement (e<sub>ccr</sub>) are no longer present
- Renewable electricity with 0 emissions possible under certain conditions (incl. PPA and GoO)



## Sustainability declarations contain general and product specific information. Mass balance approach is applicable for RFNBOs

### **Traceability**

- Every certified element in a RFNBO supply chain issues a sustainability declaration for amounts of outgoing sustainable material
- Sustainability declarations contain
  - General information on the supplier and recipient (e.g. name and address, place of dispatch and receipt)
  - Product specific information (e.g. country of origin of renewable energy, relevant GHG information

### **Chain of Custody**

- The mass balance approach is applicable for RFNBO supply chains
- "Proportional approach (or stoichiometric approach)" to be applied for allocation of sustainability and GHG characteristics
  - Sustainable share to be attributed to all process products in the same ratio in which products are generated per unit of consumed electricity







## Thank you!

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