

# ISCC Certification approach for RFNBOs

Juliane Pohl, Senior System Manager, ISCC System GmbH RVO Seminar on RFNBO certification, World Hydrogen Summit, 10 May 2023, Rotterdam

# ISCC is a globally applicable certification scheme for a wide range of feedstocks and markets





12+

Years experience of certifying global value chains

ISCC at a glance 45,000+



Total Certificates issued 130



Total Countries

8,600+



Current System Users

1400+

Total ISCC Auditors trained 160+

ISCC training courses conducted



240+

Current ISCC association members

50+

Current
Cooperating
certification
bodies



### The ISCC System is governed by the multistakeholder ISCC Association with 240+ members























































































































































































































# ISCC operates three schemes for fulfilling legal and voluntary sustainability requirements

ISCC EU

- Renewable Fuels
- RED II recognition by EC
   Bio (biofuels, bioliquids, biomass fuels)
  - Annex IX
  - Non-Bio (Renewable Fuels of Non-Biological Origin, Recycled Carbon Fuels)
- Production of electricity, heating, cooling from bio-based fuels

ISCC PLUS

- Industrial Application
- Renewable Fuels (non EU-RED) incl. hydrogen, PtX
- Food
- Feed

ISCC CORSIA

- Sustainable Aviation Fuels (SAF)
- Recognition by ICAO
- PtX
- LCAF (Lower Carbon Aviation Fuels)



### RFNBOs/PtX can already be certified under ISCC PLUS

ISCC EU

- ISCC applied for recognition by the EU COM for RFNBO certification
- RFNBOs can be certified once recognition by EC is in place
- ISCC is participating in **pilot** audits

ISCC PLUS

- It is already possible to certify PtX under ISCC PLUS
  - Examples are: Hydrogen, Ammonia, Chlorine, PVC

ISCC CORSIA

- At the moment, it is not possible to certify PtX under CORSIA
- Work in the PtX space is ongoing in ICAO (CAEP, FTG)
- ISCC is actively part of the working groups



### ISCC registration and certification process





# ISCC cooperates with 50+ Certification Bodies that conduct audits on a regional and global scale

See ISCC website for contact details













































































































### 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 Document available at https://www.isccsystem.org/certification/certification-process/certificationfees/

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.

## Forwarding sustainable material in the supply chain

Simplified supply chain

#### **Feedstock sourcing Processing and distributing** --- $\square\square\square$ First Gathering Point, **Processing** Farm, Trader / Market **Point of Origin Collecting Point** Unit Storage Self-Sustainability Sustainability Sustainability **Declaration** Declaration Declaration Declaration

# Main points for certification

- Certification of individual supply chain elements
  - Group certification possible for farms and points of origin
- Annual certification audits by third-party certification bodies
- Certification covers: Management system, traceability documentation, mass balance, GHG emissions
  - For feedstock sourcing: Sustainability requirements for agricultural biomass, waste/residues or renewable electricity
- Forwarding of information on sustainable material through Sustainability Declarations
  - General information on transaction parties, production related information (e.g. raw material and country of origin, scope of raw material certification, GHG information



# ISCC certification approach for RFNBOs has been set up

- ISCC developed a certification approach for Renewable Fuels of Non-Biological Origin (RFNBOs)
- Approach was successfully tested in pilot audits that were initiated by the Dutch authorities EZK and RVO\*\*
- Approach is based on delegated legislations as adopted in Feb. 2023\*
- ISCC submitted the RFNBO System Documents to the EC for recognition in March 2023
- RFNBO certification audits under ISCC EU will be possible, once recognition is in place





Final results of pilot audits by independent certification body

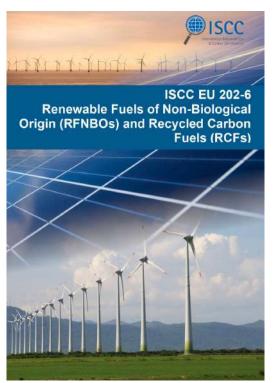


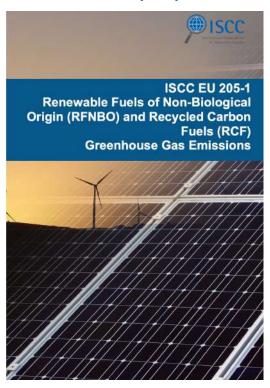
<sup>\*</sup> Draft delegated regulation on establishing a Union methodology setting out detailed rules for the production of RFNBOs and Draft delegated regulation on establishing a minimum threshold for GHG savings of recycled carbon fuels and by specifying a methodology for assessing GHG savings from RFNBOs and from recycled carbon fuels.

<sup>\*\*</sup> Dutch Ministry of Economic Affairs and Climate Policy (EZK) and Netherlands Enterprise Agency (RVO)

# ISCC RFNBO approach will be part of ISCC EU that is already recognised by the EC under RED II

ISCC has developed two tailored system documents for RFNBOs certification purposes



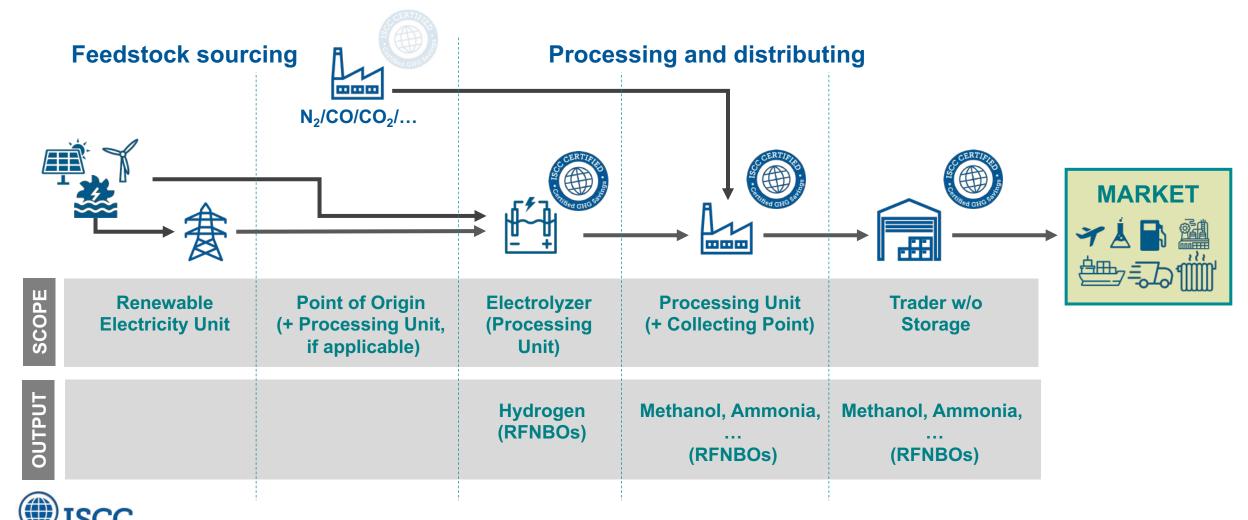


The ISCC EU system documents set are recognised and apply





# To cover RFNBO supply chains renewable electricity units are added to the existing scopes



# Principles to count electricity for RFNBO production as renewable

#### Renewability

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

- Rules if electricity is sourced from direct connection between electricity and RFNBO installation
- Rules to count electricity taken from the grid as fully renewable

To prevent increased electricity production from fossil sources the production of RFNBOs should...

#### **Additionality**

...Incentivise additional deployment of renewable electricity capacity for RFNBO production

### Temporal correlation

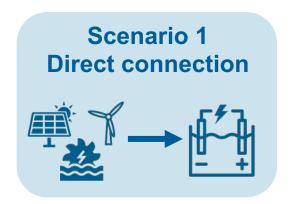
...Take place at times when renewable electricity is available (i.e. when the RFNBO production supports the integration of renewable power generation into the electricity system and reduces the need for dispatching renewable electricity)

### Geographical correlation

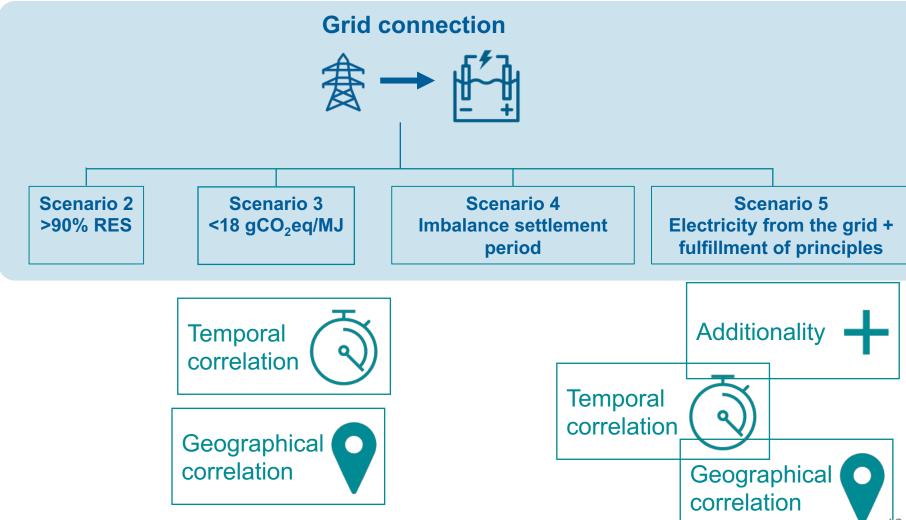
...Take place in places where renewable electricity is available (i.e. the electrolyser and the installation production renewable electricity should be located in the same or interconnected bidding zone)



### Five possible scenarios for renewable electricity



Additionality +





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# The GHG methodology for included in the DA differs from RED II. Minimum GHG savings are 70%

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

#### Where:

E = total emissions from the use of the fuel in g CO<sub>2</sub>/MJ

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

 $e_{td}$  = emissions from transport and distribution

 $e_u$  = emissions from combusting the fuel

 $e_{ccs}$  = emission savings from carbon capture and geological storage

Source: Annex on Delegated Act on Renewable Fuels of Non-Biological Origin – GHG methodology (2023)

Elastic: Supply can be expanded to meet additional demand (e.g. electricity)

Rigid: Supply <u>cannot</u> be expanded to meet additional demand (e.g. MSW, inputs for RCFs)



### Requirements for traceability chain of custody

#### **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





### Final messages

- ISCC EU certification approach for RFNBOs is with EC for recognition
  - ISCC EU RFNBO certification possible once EC recognition is in place
- ISCC PLUS certification of RFNBOs is already possible today
- First ISCC RNFBO Training takes place on 11 May 2023 (further in 2023 dates tbc)
- Dedicated ISCC Technical Committee on RFNBOs – Date for 2023 meeting tbc –
  - Sign up for ISCC Newsletter to stay informed



### Thank you!

**ISCC System GmbH** 

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