

## Recent Developments and Market Expansion of ISCC PLUS

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Technical Committee on Circular Economy and Bioeconomy, 28 November 2023

## ISCC was heavily involved in discussions on fuel-use excluded attribution option





# Together with ISCC PLUS system users ISCC conducted pilot studies to practically evaluate a fuel-use excluded attribution

#### **Pilot partners**

- In ISCC mass balance working group meeting ISCC asked for interested system user to conduct pilot studies
- Focus on refineries and steam crackers due to presence of dual-use and fuel products

#### **Content of pilot studies**

- Pilot partners gathered data on existing ISCC PLUS certified processing units
- Example calculation of fueluse excluded quantities for participating assets
- Example classification of outputs and discussion of usage verification possibilities

#### **Objectives**

- Create information and transparency on practical implementation of a fuel-use excluded approach
- Development of secure and credible implementation approach with an appropriate audit complexity and which is practically feasible for system users



### **Piloting fuel use excluded mass balance** Key takeaways from pilot studies

#### Preferred mass balance model

- Credit based approach is key due to intermittency of processing of nonconventional feedstock.
- Preference for exclusion of fuel use share and then free attribution between non-fuel use outputs.
- Stricter attribution rules reduce recycling yields and limit the types of outputs that can be attributed to.

#### Mass balance calculations

- The complexity involved in the mass balance calculation is high but manageable.
- Allowing the use of yields based on simulations is important so that chemical behavior of different feedstocks is accounted for. This can also reduce complexity.

#### Verification of use

- Step-wise approach with each entity in the supply chain applying fuel-use excluded attribution and deducting its fuel-use share
- Use of "internal" company data, when available, for downstream use preferred.
- Required information may not be available when selling to traders.
- If industry values were to be provided these should encourage use of primary data.



Based on pilot study results ISCC has developed a fuel-use excluded approach to calculate and declare quantities of recycled outputs at each certified entity in the supply chain





## Summary and next steps for fuel-use excluded attribution option at ISCC PLUS

- ISCC fuel-use excluded pilot studies with ISCC PLUS system users showed that a fuel-use excluded attribution approach can be practically implemented.
- Based on pilot studies and together with other PLUS system users and stakeholders, ISCC has developed and tested a credible fuel-use excluded approach.
- The approach focusses on output classification as well as the practical steps to be conducted for the calculation of fuel-use excluded quantities and can be adapted depending on details of mass balance regulation.
- ISCC is well prepared to implement a fuel-use excluded attribution option as soon as required by legislation or stakeholder demand.



### Introduction to ISCC Carbon Footprint Certification (ISCC CFC)







- Certification of product carbon footprints (PCFs)
- Low carbon claims for products with improved carbon footprint due to
  - Decarbonization measures during production (and use of conventional feedstock)
  - Use of ISCC PLUS certified feedstock
- Module can be used on its own or combined with ISCC PLUS feedstock
  - PLUS: material origin certified, non-conventional feedstock needed
  - CFC: PCF certification, non-conventional feedstock not necessary
- Iterative approach for further development of document
  - Certification scope specific requirements for PCF calculation to aim for more comparability and reproducibility of PCF results
  - Currently including the developed approach for CCS setups
  - Ongoing and future pilot projects on other setups
  - Module under development: Pilot certifications only possible with involvement of ISCC

### The ISCC CFC module will allow to assess the environmental benefit of products independent on the feedstock



#### --- ISCCs Vision of CFC and PLUS certification: not completely established yet! ---



\*1: Currently only CCS approach established under ISCC CFC (draft version v0.1).

\*2: GHG addon of ISCC PLUS to be updated, currently 205 to be followed: 0/0 appraoch, cradle-to-grave.

\*3: Interface CFC and PLUS to be defined for every certification approach.

# The further development of the ISCC CFC module will be supported by a GHG working group

- Focus: PCF of mass balanced products (Transition ISCC PLUS GHG addon to ISCC CFC)
- Representative of ISCC PLUS stakeholders
- Topics
  - Discuss challenges system users are confronted with when doing PCF calculations for PLUS products
  - Discuss possibilities of PCF pilot studies for PLUS certified products
- First meeting early 2024, invites to be send soon
- After first open meeting smaller group which is able to work may be formed
- Interested parties can get in contact with ISCC via the contact form on ISCCs webpage





## Thank you!

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