

Update on ISCC PLUS

Dr Jan Henke

ISCC Technical Stakeholder Meeting

“Circular Economy and Bioeconomy”

Co-Chairs



Mr Frederic Dreux (*Unilever*)



Mr Jason Pierce (*Eastman*)



For the very valuable contributions of our chairs, participants in the ISCC Technical Stakeholder Committee and input from Working Groups. You have heavily contributed to the strong growth and development of the ISCC PLUS scheme in 2022!



Goals of this meeting

- Overview on activities and developments since last stakeholder meeting
- Provide platform for stakeholder dialogue
 - Discuss latest developments and stakeholder views
 - Market activities, regulatory developments
 - Create transparency on mass balance and attribution discussions
 - Information on update of ISCC PLUS system document to version 3.4
- Outlook and focus areas in second half of 2022

Key developments in 2022

Strong growth of new system users & ISCC members

**High number of trainings &
participation at external conferences**

**Work on integration of renewable electricity, hydrogen
and derivatives**

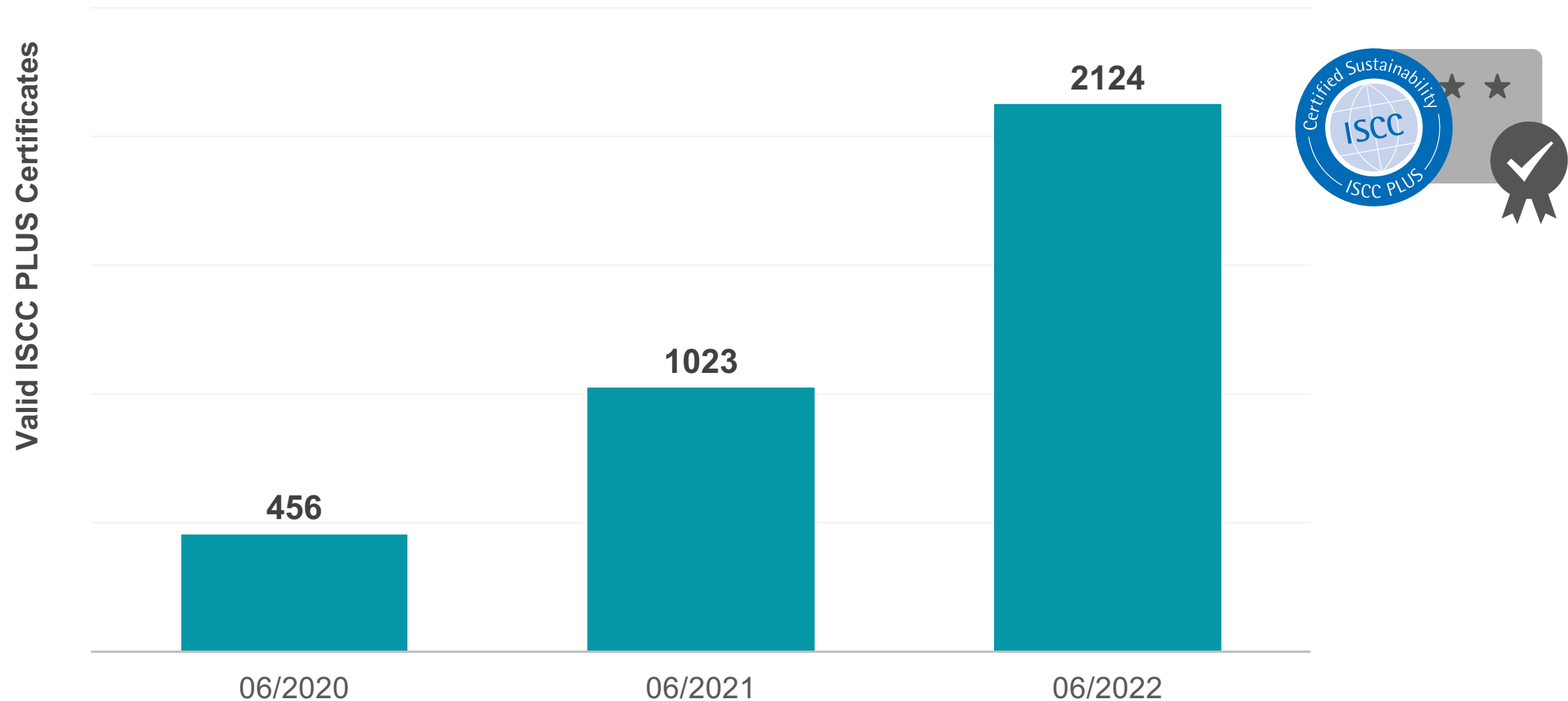
**Intensive discussion of way ahead w.r.t. attribution
options (EC, CGF, Plastics Europe, Cefic, ...)**

Evaluation of pilot projects on GHG/LCA

ISCC PLUS Sustainability Declaration V3.3

Increased social media activities

Number of ISCC certificates continues to increase



The ISCC Association is a multi-stakeholder initiative comprised of currently 206 members





More and more brand owners become ISCC certified or ISCC licensed.



Swedish Match.



Examples

Beiersdorf



DELIZIO



GENTLE MONSTER



Mondelēz
International

Orkla

KraftHeinz

Hpm



FRONERI

Tupperware

Lönneberga

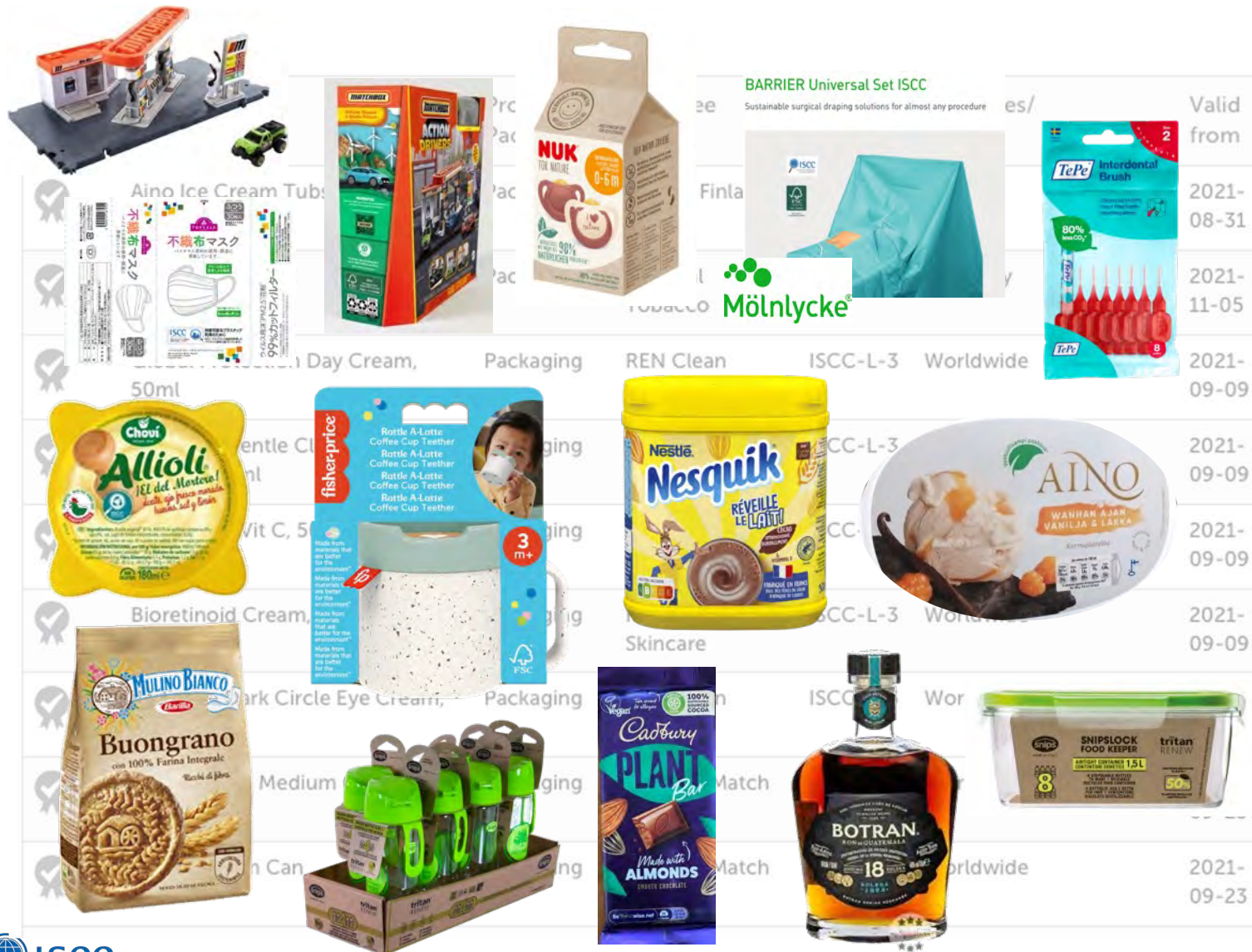
LA MUU



Mölnlycke



The application of the ISCC logos, claims and licensing scheme is steadily rising



ISCC License Database

- Nearly 100 licensed final products
- Increased number of on-product logo use
- 35 license agreements
- 17 valid licenses

ISCC is heavily involved in discussions on how to advance the circular economy

ISCC contributions at external conferences

- Institute for Sustainable Process Technology, February
- 2nd Circular Polyolefins Outlook, March
- 2nd Chemical Recycling of Plastics (CRoP) Forum, March
- BPF Seminar on Recycled Content, March
- European Polymers Conference, May
- 9 Polymer Forum, May
- Tire Technology Expo Conference, May
- Future of Surfactants Summit, May
- Sustainable Polyolefins, Markets & Innovations, June
- U.S. Plastics Pact, PCR certification programs, June

Other activities

- Discussions with authorities and their consultants
 - EU: Single-use-plastic directive implementing act
 - UK, ES, US, Canada, Japan: Discussion about possible recognition of ISCC PLUS in the context of national plastic taxes and recycling targets
 - Eunomia, Joint Research Center, NIST
- Exchange with associations, e.g. Cefic, Plastics Europe, CGF and their consultants
- Meetings with (potential) system users, brand owners, associations, etc. on a global scale

And more to come!

ISCC PLUS trainings in 2022 so far have been fully booked

ISCC stakeholder events:

- Previous **TC Circular Economy and Bio Economy**, December 2021 around 300 participants
- **Next** TC Circular Economy and Bio Economy: 17 November 2022
- **ISCC PLUS Certification Body** Meeting in May 2022, around 60 participants



[Register here for the upcoming TC](#)

ISCC PLUS Training “Circular Economy and Bioeconomy”

- **Two ISCC PLUS Trainings in Q1&Q2, 2022**, around 200 participants
- **Next** training date: 21 - 22 September 2022



Deepen your understanding of ISCC PLUS certification



Become familiar with certification and audit requirements



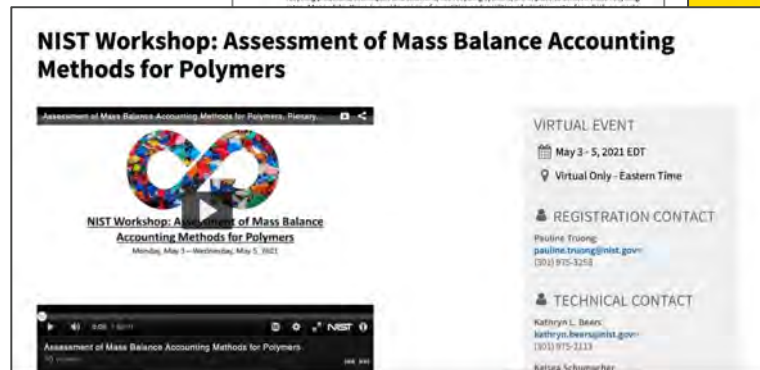
Learn about chain of custody options, mass balancing, yield calculations and attribution options



Discover new market opportunities and stay ahead of your competition

[Register here for the upcoming training](#)

The agenda of our meeting today reflects the global multi-stakeholder dialogue on mass balance and attribution options



| Time | Topic | Who |
|---------------|---|---|
| 11:30 – 12:00 | Registration | |
| 12:00 – 12:15 | Welcome and Introduction by TC Chairs | Frederic Dreux , R&D Packaging Leader, Unilever, Netherlands Jason Pierce , Group Leader, Circular Economy and LCA, Eastman, USA |
| 12:15 – 12:30 | Update on ISCC PLUS | Dr Jan Henke , Director, ISCC System, Germany |
| 12:30 – 12:45 | Policy Overview on Plastics in the US | Kelsea Schumacher , Phd, Research Associate, Circular Economy Program National Institute of Standards and Technology, USA |
| 12:45 – 13:00 | Practical Implementation of Plastic Contribution for End of Life | Gautier Massip , Ecodesign Engineer, CITEO, France |
| 13:00 – 13:15 | Update on Brand-owner Position on Mass Balance and Attribution | Ignacio Gavilan , Sustainability Director, Consumer Goods Forum (CGF), France |
| 13:15 – 13:30 | The View of Chemical Refiners and Producers on Mass Balance and Attribution | Henk Pool , Innovation Manager, Cefic, Belgium |
| 13:30 – 13:45 | Discussion | All |
| 13:45 – 14:00 | Refreshment break | All |
| 14:00 – 14:15 | Recent Developments and Market Expansion of ISCC PLUS | Dr Stefan Gärtner , Project Manager, Meo Carbon Solutions, Germany |
| 14:15 – 14:30 | Opportunities and Challenges for ISCC certified Chemicals | Petra Inghelbrecht , Global Sustainability Manager, INEOS Styrolution, Belgium |
| 14:30 – 15:00 | Discussion of Next Steps | All |

The Working Group on Mass Balance recently hold its 3rd meeting. The main outcome was to keep the certified attribution option and specify other approaches

Free attribution and other attribution options already established in ISCC PLUS

- **ISCC PLUS system document V3.3:** „ISCC PLUS allows the free attribution for the determination of the sustainable share of input material to the output material. Free attribution means that the sustainable share can be attributed to one or several output materials.“
- **Could already be further specified and handled in a more restrictive way**, i.e. by excluding fuels in the calculation of sustainable shares, respective information can be included on the Sustainability Declaration.

Way forward ISCC PLUS development

- Maintain certified (free) attribution option and **specifying alternative options** as “energy excluded”
- **Setup pilots** to identify solutions for implementation challenges
- **Next working group meeting** will cover further external input as specific cases and example calculations for different scopes and technologies
- On this base ISCC will develop **clear criteria** for system document and **helpful verification guidance** in audit checklists

UPDATE COMING
SOON

ISCC PLUS

Version 3.3

ISCC is in the process of updating its System Document – public consultation soon

Most updates due to the increased use of ISCC PLUS certification for industrial applications

- Further specifications for mass balance approach
 - Attribution options (“energy excluded”)
 - More guidance on conversion factors and calculations
- Specifications for CO₂ and H₂ certifications
- Group certification for final product refinement (e.g. assembling, laminating, sealing) and subcontractor agreements
- Further specification on mechanical recycling certification
- Increase in options to integrate GHG emission values and CCS
- Development of guidance on handling inorganic materials (e.g. N₂) ongoing

ISCC will publish its impact report very soon based including a broad data basis and several case studies from the chemical industry

More than

15,000

newsletter and social media subscribers

More than

5,000

certified companies

ISCC is governed by

200+

members

ISCC operates in more than

100

countries

ISCC offers

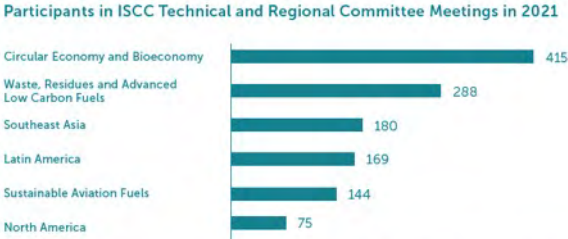
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training courses

ISCC is engaged in stakeholder dialogues

4 and **4**

Technical Committees Regional Committees



...t of ISCC more accurately than we were able in our
... Impact Report of 2018.

We invite you to take part in our sustainability jour-
... and to share our efforts to continuously grow, seek
... v challenges and find new ways in making this world
... re sustainable. To those who have worked with us,
... thank you for your trust in ISCC – your support keeps
... mission alive!

»To those who
have worked with
us, we thank you for
your trust in ISCC –
your support keeps
our mission alive!«



Gernot Klepper

Gernot Klepper

Results from over 16,000 certification audits,
multiple certification stories from ISCC
certified brands and much more!



Outlook 2022

- Keep up discussions with all stakeholders on relevant topics around the circular economy, bioeconomy and ISCC certification
- Continue discussions on regulatory recognition
- Supporting brand owner ISCC logo use and continue work on becoming more consumer facing
- Setup pilots to identify solutions for implementation challenges for attribution options
- Further integration carbon footprint calculations and claims
- Further improving impact assessment
- Public Consultation of new System Document
- Next meeting of mass balance working group

Wrap up and next steps

- Acceptance of mass balance approach continuously grows in scale and also in trust with the market, regulators and other stakeholders
- Need for mass balance approach highlighted as well as need for chemical recycling
- Aspects such as attribution options and claims are evolving and starting to converge
- Development towards and already demand for “energy excluded” attribution approach
- ISCC PLUS is responding to the stakeholders and market needs, i.a. by implementing updated claims and licensing options (2021) and new “energy excluded” attribution (2022)
- Challenges:
 - Acceptance of mass balance attributed recycled content in plastics recycling legislation
 - Further acceleration
- Continue dialogue with all stakeholders, i.a.
 - NIST on developments in the US and role for certification
 - CITEO on potential future acceptance of ISCC PLUS mass balance approach
 - CGF and its members on their shared position and goals on the chemical recycling value chain and certification schemes
 - Cefic on examples and regulatory developments
- Better, more positive name for “energy excluded”. Please provide your ideas to ISCC
- LCA: Further discussions on methodology, in particular when attribution is involved. Discussion on whether LCA requirement is appropriate (% or equivalent/better than non circular)
- Inclusion of innovative approaches, e.g. H2, CO2 coverage
- Topics for next TC Meeting: feel free to provide input to ISCC
- **Next meeting: 17 November 2022: [Please register here](#)**