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SmartFuture™ Plastics

# Certified Bio-Feedstock Polymers: A Drop-in solution for Carbon Footprint Reduction

ISCC International Sustainability & Carbon Certification

For converters committed to reduce their carbon footprint, Certified Bio-feedstock Polymers are a direct, drop-in solution. They facilitate the transition to lower carbon footprint and at the same time reduce the usual complexities of switching to alternative options.

## The Simplicity of Switching to Certified Bio-Based Polymers

The choice of Certified Bio-Based Polymers under the mass balance principle means receiving exactly the same materials with all standard certifications of virgin grades (including food contact). No need for new products approvals, lengthy testing or quality compromises.

TOTALENERGIES PE, PP, PS:

**The whole product range is available as Bio-Certified Polymers**

LG Chem

TotalEnergies

PC, PC/ABS FROM LG CHEM

**is available today under mass balance approach**

## How does it work?

The mass balance approach allows petrochemical producers, who have invested in bio-refineries, to incorporate both bio-based (e.g., rapeseed oils) and bio-circular (e.g., residual fats from the food processing industry) feedstocks into their polymer production. This method ensures that for every unit of bio-based material used, an equivalent unit is accounted for in the final product.

The ICSS+ Certification across the entire supply chain not only ensures the responsible sourcing of renewable feedstocks but also highlights the greenhouse gas savings achieved compared to traditional fossil-based counterparts. This certification serves as a testament to the environmental commitment of all participants in the supply chain, from farmers to the end product.

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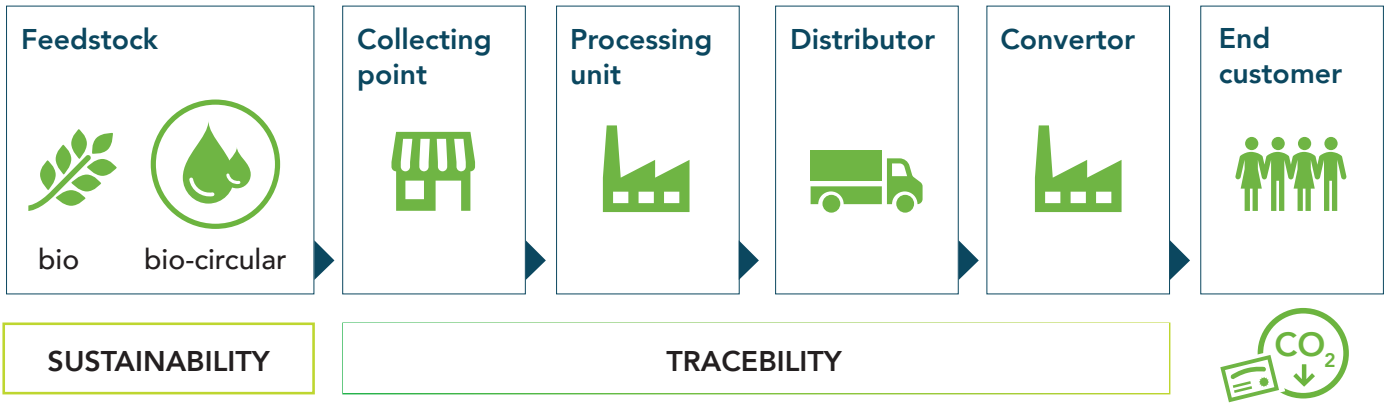
## ISCC+ CERTIFICATION: Each supply chain element is certified




## Bio-Certified Polymers versus other Eco-Friendly Solutions

| Feedstock | Drop-in | $CO_2$ reduction | Type | Telko offer | Availability |
|---|---|---|---|---|---|
| **Bio-Based** | yes | ↓↓ | mass balance | **TotalEnegries:** PP, PE, PS, **LG Chem:** PC, PC/ABS, **Hexpol:** TPE | today |
| **Bio-Circular** | yes | ↓↓↓ | mass balance | | today |
| **Mechanical Recycling** | no | ↓ | physically segregated | PS, ABS, PBT, PET, PC/ABS | today |
| **Chemical Recycling** | yes | ↓ | mass balance | **TotalEnergies:** PE, PP, PS | 2026 |

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