



exolon
GROUP

ISCC PLUS CERTIFICATION

SECURE YOUR PLACE IN THE VALUE CHAIN!



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CONTENT:

- Exolon: short introduction
- ISCC PLUS
 - Why? (is Exolon ISCC PLUS certified).
 - What?
 - How?: The concept of mass balance.
 - Your questions/concerns.

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YOUNG COMPANY WITH A LONG HISTORY



Carbolux®

makroform



Bayer **MaterialScience**



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- **1980's:** **Carbolux** (Italy - multiwall PC sheets) & **Axxis** (Belgium – solid PC / APET / PETG sheets) were founded.
- **2000:** **Makroform** (Axxis + Carbolux) was founded (**JV Bayer AG & Röhm GmbH**).
- **2003:** Name Change to **Bayer Sheet Europe**.
- **2011:** Name change to **Bayer MaterialScience**
- **2015:** **Bayer MaterialScience** plastic business becomes **Covestro Group**.
- **September 2019:** European **Covestro** Sheet Business was sold to **Serafin-Unternehmensgruppe**
- **January 2020:** Start of the **Exolon Group**: Solid Sheets (Tielt, Belgium) ; Multiwall Sheets (Nera Montoro, Italy).

WHERE WE ARE / SOME KEY FIGURES

Group TO: 140 mio €

270 FTE's

Group production volume: 35 kT



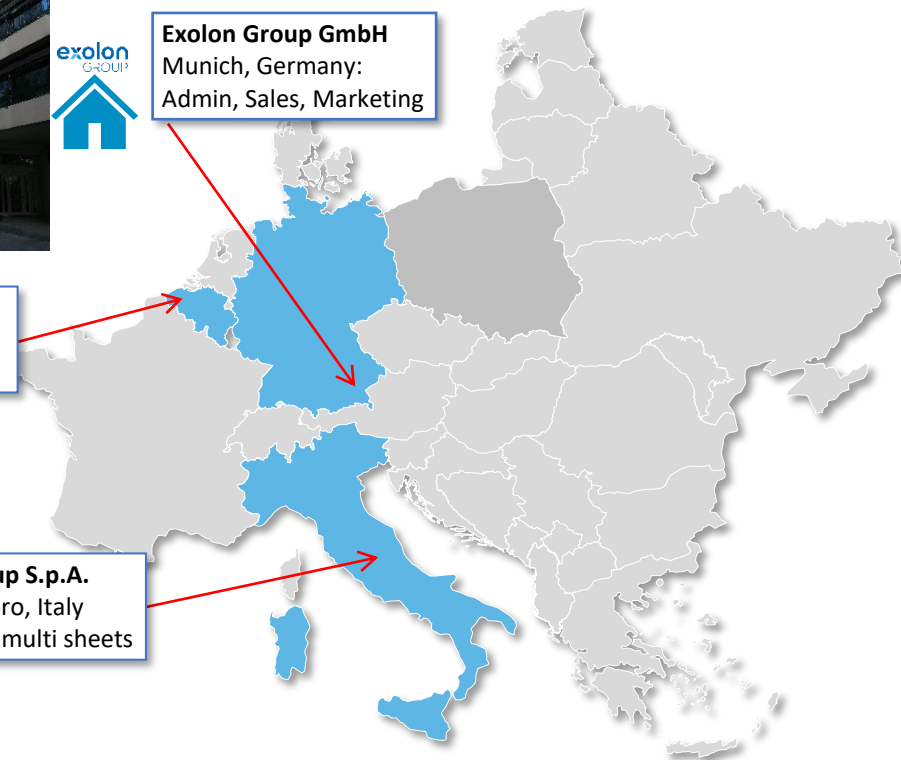
Exolon Group NV
Tielt, Belgium
Production: solid sheets



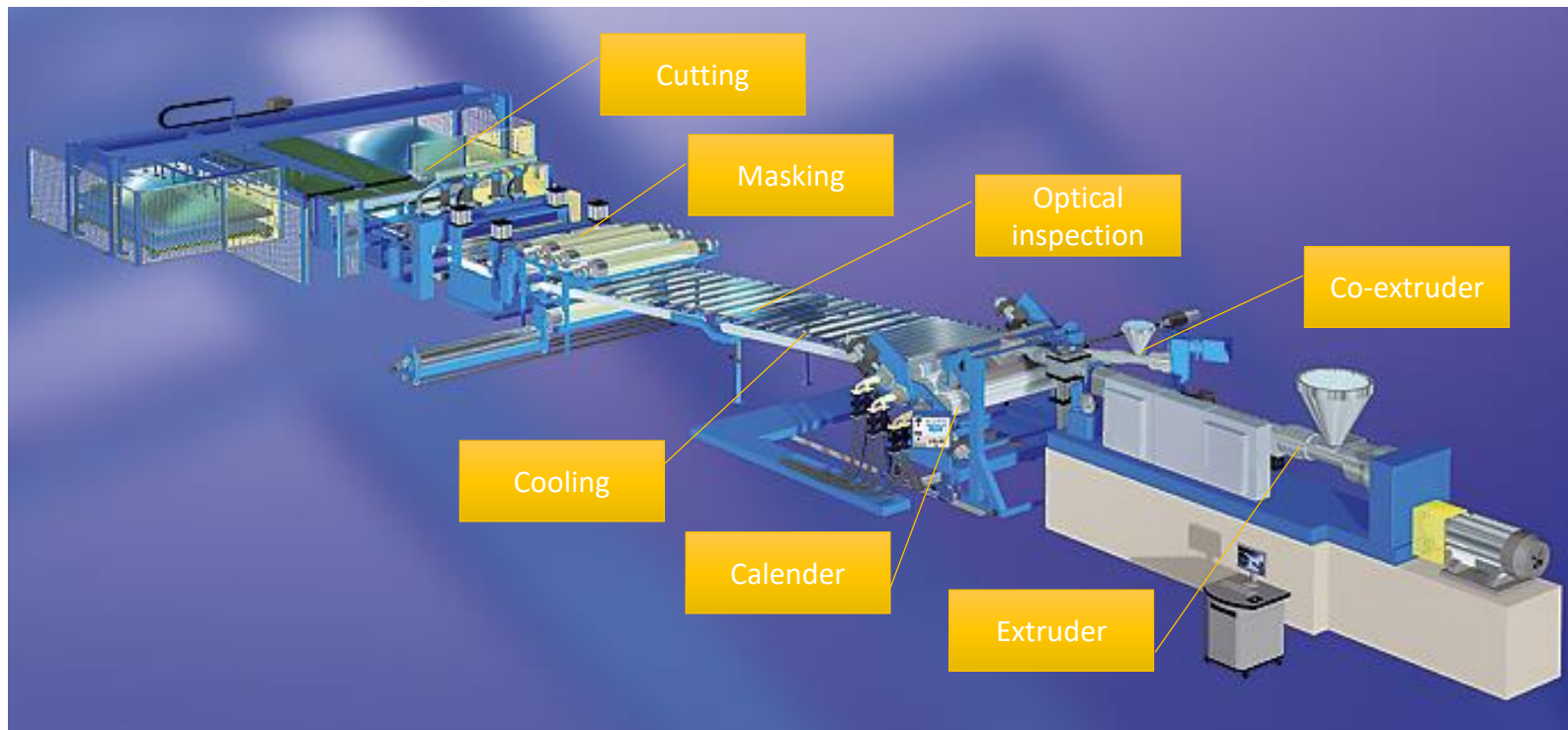
Exolon Group S.p.A.
Nera Montoro, Italy
Production: multi sheets



Exolon Group GmbH
Munich, Germany:
Admin, Sales, Marketing



SHEET EXTRUSION LINE



SOLID AND MULTIWALL SHEETS

PRODUCT RANGE/ BRANDS



- POLYCARBONATE

exolon[®]

- CO-POLYESTER (PETG)

vivak[®]

- POLYESTER (APET)

axpet[®]

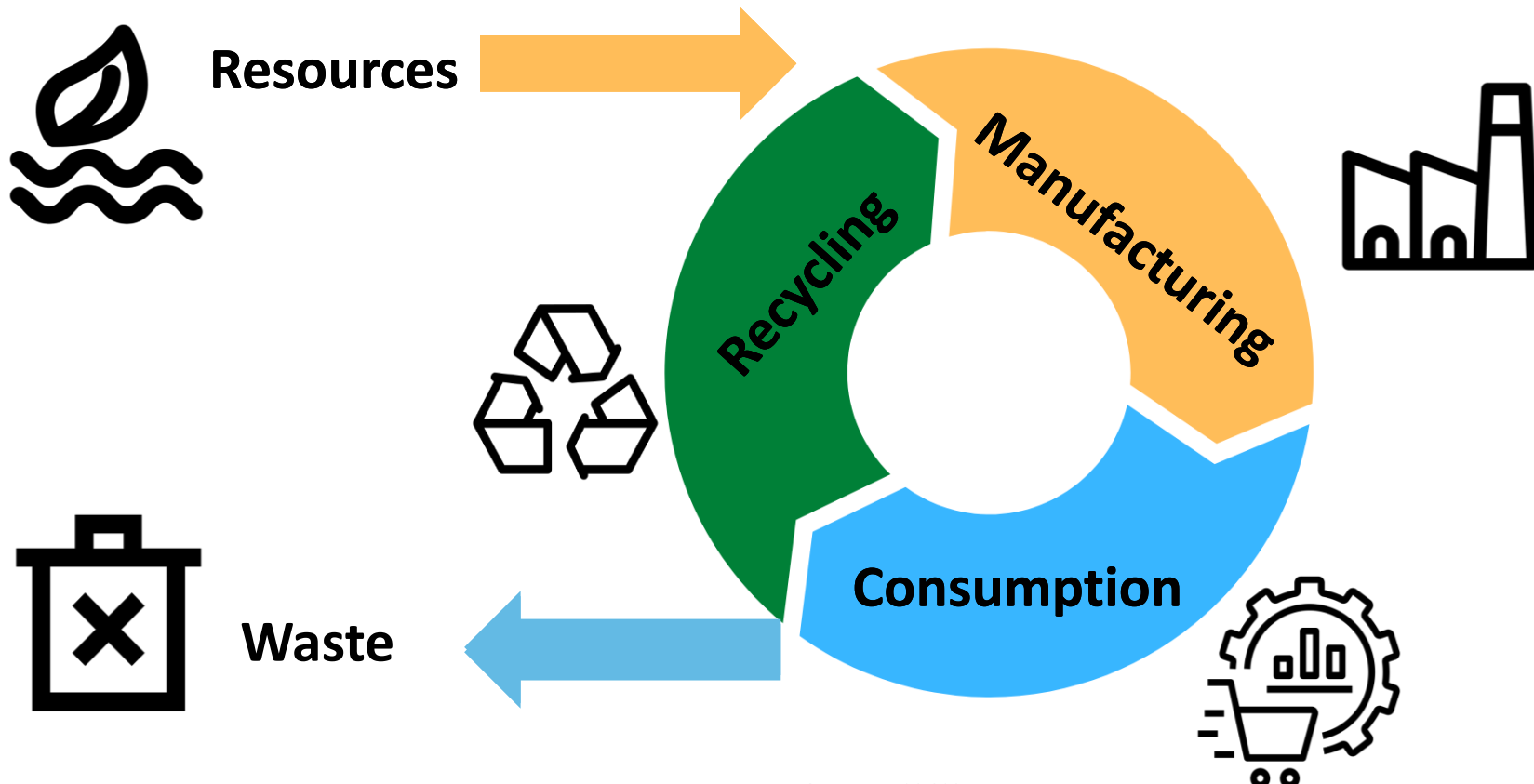
- BLENDS (PC/ABS a.o.)

exoblend[®]

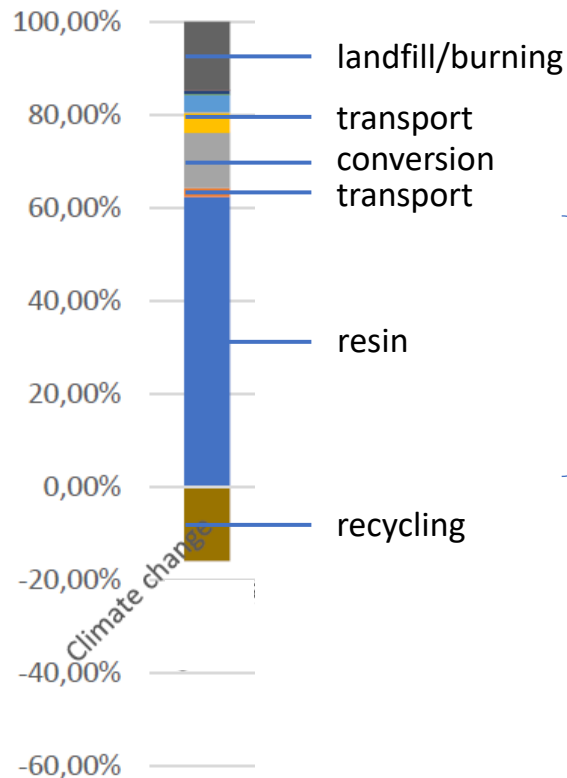
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CIRCULAR ECONOMY



DECREASE CARBON FOOTPRINT (CO₂-EMISSION)

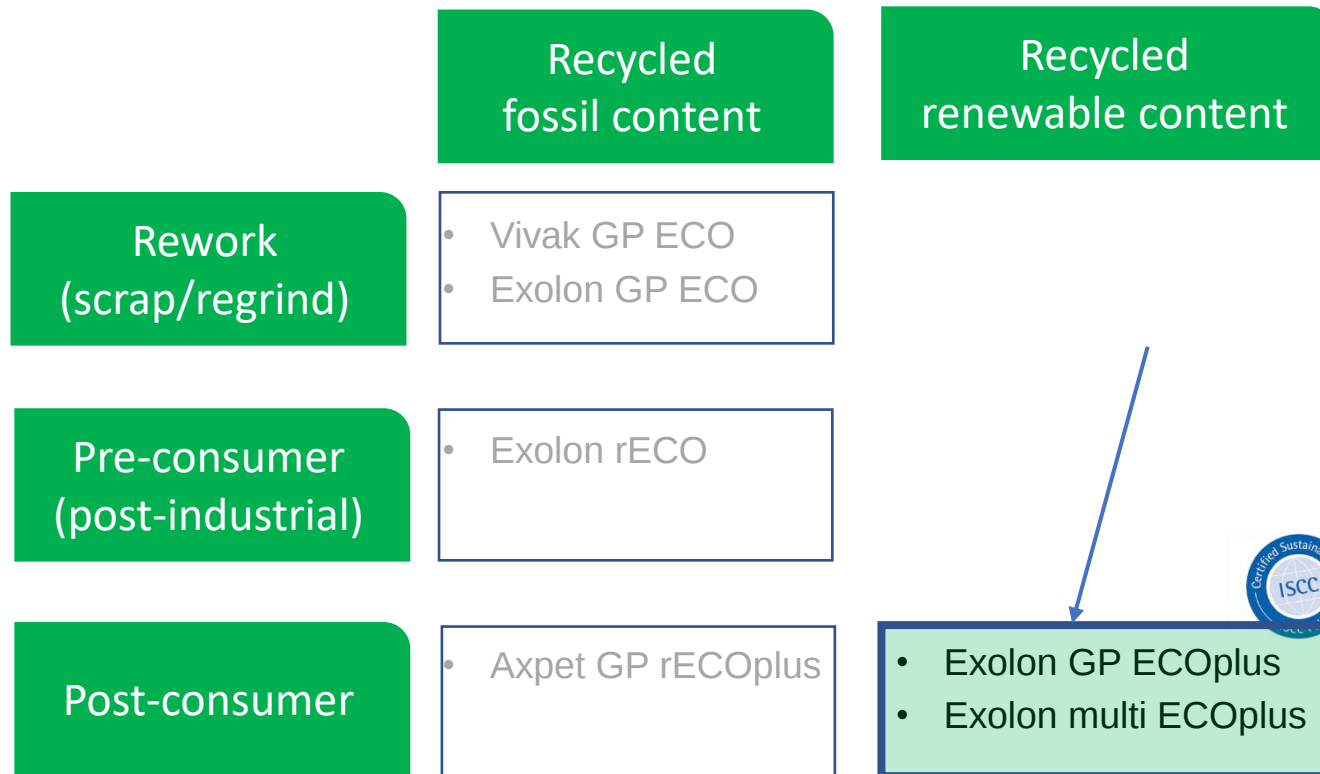


Fossil resins are by far the biggest single contributors to the carbon footprint of a plastic product

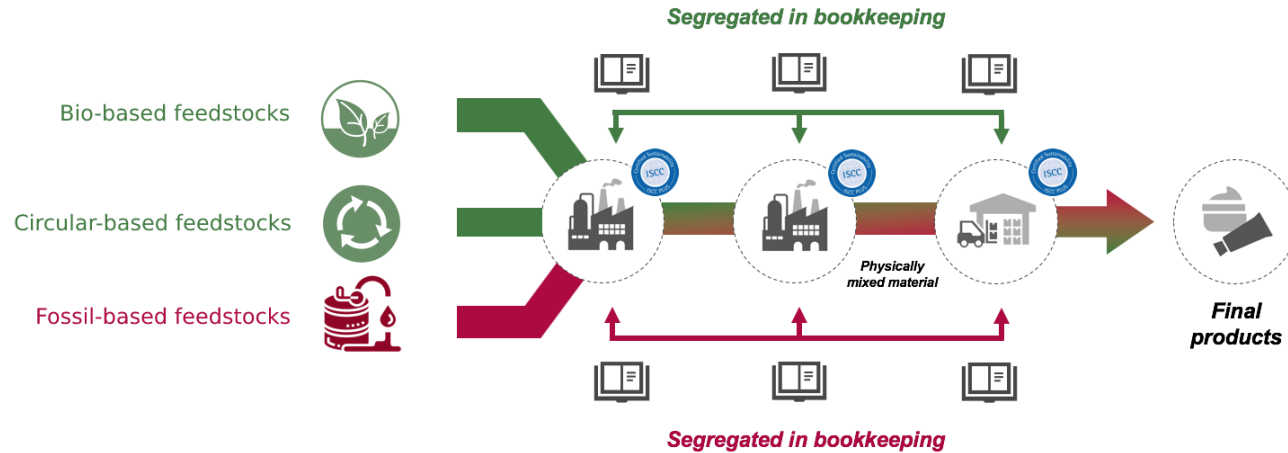
CIRCULAR ECONOMY



Recycling



STRONG PULL BY BRANDS / END USER MARKET



It's a chain → there can be no missing link(s)!!!

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WHAT IS ISCC PLUS?

*ISCC PLUS certification is a **voluntary scheme** that is applicable for the bioeconomy and **circular economy** for food, feed, chemicals, **plastics**, packaging, textiles and **renewable feedstock** derived from a process using renewable energy sources.*

ISCC PLUS covers the **same certification requirements as ISCC EU** but can be customized to meet the needs of different markets or specific applications. All kinds of biomass, waste and residues, non-biological renewables and **recycled carbon materials can be certified under ISCC PLUS.**

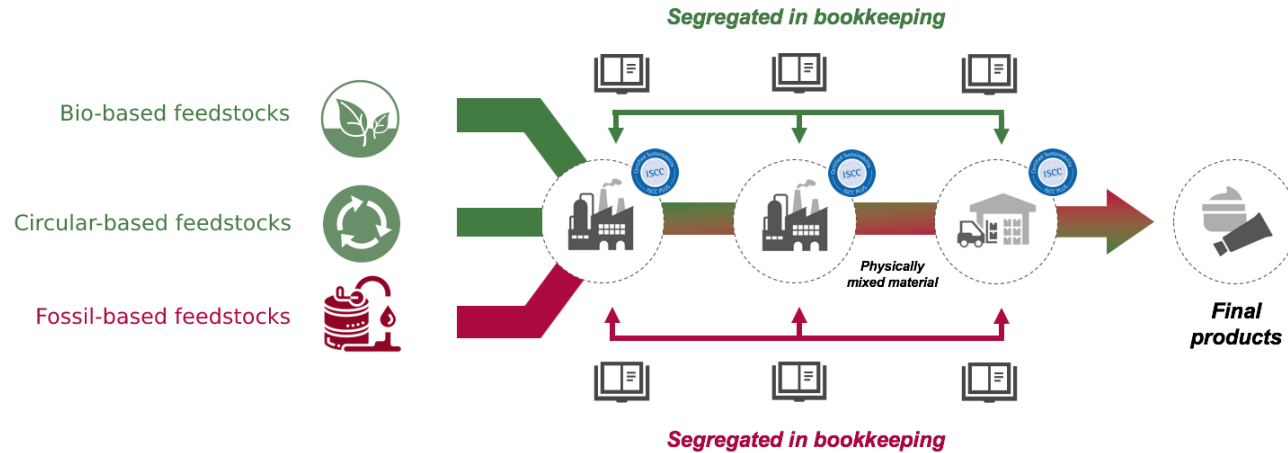
→ More information on the certification scheme, certification process, cost etc.:

<https://www.iscc-system.org/certification/iscc-certification-schemes/iscc-plus/>

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MASS BALANCE APPROACH



It's a chain → there can be no missing link(s)!!!

ISCC PLUS – THE MASS BALANCE APPROACH

- Physical segregation of recycled content is often practically and economically infeasible.
- The mass balance approach makes it possible to track the amount and sustainability characteristics of circular and/or bio-based material in the value chain and attribute it based on verifiable bookkeeping.
- It has been designed to trace the flow of materials through a complex value chain.
- Mass balance approach has prevailed in the chemical industry.
- Important milestone on the pathway to a circular economy and bioeconomy.

MASS BALANCE IN THE CHEMICAL INDUSTRY:

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LG Chem



ARKEMA

INDORAMA

SEKISUI

سابك
sabic

BASF
We create chemistry

BOREALIS
Keep Discovering

LOTTE CHEMICAL

vestolit

TRINSEO

DaiKei 大景化学株式会社
Daikēi Kagaku

ExxonMobil | Chemicals & Specialties

AVIENT™

VYNOVA

Chevron
Phillips
CHEMICAL

uponor

INEOS

TotalEnergies

DOW

Braskem

BENEFITS OF BEING ISCC PLUS - CERTIFIED



- Unified, globally recognized certification system (green electricity, transport fuels,...)
- Full traceability, from source to the final user (consumer).
- Demanded by brand owners who want prove of the use of renewable / circular content.
- Supported by majority of raw material suppliers

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YOUR QUESTIONS / CONCERNS





THANK YOU FOR YOUR ATTENTION!