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## Confidence through partnership INNOVATIONS IN PLASTICS RECYCLING ROADSHOW INDIA FEB 2025

Peter von Hoffmann

Business Unit Manager

# For more recycling of all kinds of plastic ip

#### Business Unit Recycling

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#### **Optimized and Closed Plastic Value Chain**

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Key words: Circular Economy, Sustainability, Energy Savings

A circular economy keeps materials and products in circulation <u>as long as possible</u>. Coperion has a system-focused approach starting with the design of our equipment to maintain their highest value for as long as possible and aims for the elimination of waste during operation for high quality products.



Design for Value with optimized CO<sub>2</sub> Footprint

Lowest Every Consumption during Operation

Zero Waste Strategy during Operation

Optimized Process Chain from PCR to Pellets







#### Recycling Business Unit – New common product range

The integration of Herbold and former Schenck Process FPM allow us to offer the Recycling industry best in class equipment as well as full scale Recycling plants by leveraging Coperion's engineering capabilities.



#### Coperion Recycling – activity spectrum



We offer a wide range of recycling solutions accross a wide spectrum of plastics types, recycling technologies, customer segments and geographic regions.







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#### Multilayer film recycling (In-house/zero waste)

- High quality of recycled pellets from multilayer film waste and reuse of the pellet as • raw material for multilayer film as a substitute for virgin PE, virgin PP materials, etc.
- Basically no compatibilizer is used.

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#### Multilayer film recycling (In-house/zero waste)

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#### Chemical Recycling - Pyrolysis



#### Chemical Recycling - Pyrolysis

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Recycling Business by Coperion



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#### Coperion Recycling Innovation Centers



**Recycling Innovation Center for Coperion Product Line** Niederbiegen, Germany



- Storage and homogenization
- Conveying and drying
- Feeding
- Compounding
- Degassing and deodorization
- Pelletizing and bagging

North America Salina, Kansas Pneumatic Conveying Pitman, New Jersey Feeding & Extrusion



Niederlenz, Switzerland

Test facilities for the full product line are available worldwide to prove the working principle of Coperion and Herbold equipment with our customer's products. Recycling Innovation Center for Herbold Product Line Meckesheim, Germany



- Size reduction
- Washing
- Drying
- Separation
- Agglomeration

#### Business Unit Recycling – Why we are the right partner

Coperion and Herbold – A new level of expertise in plastics recycling

What makes Coperion Recycling unique and the best partner:

- Bringing strong brands together Offering best in class process
- Serving you **globally**
- Targeted product development with high in-house production rate
- Decades of experience and process know-how in plastics and plastics O
- Tailor-made solutions for all recycling processes.
- Food-grade PET bottle to-bottle references with brand approval with dur SSP partner
- Recycling Innovation Centers in Earope and testing facilities around the world to support our customers.

Industry techniclogy offering est quality, lower opex, maximal throughput and flexibility

**Best Total Cost of Ownership** 

Worldwide support



#### FOR TOMORROW

• We constantly learn and improve! To better support our customers and partners

#### CONTACT

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### Lonfidence through partnership THANK YOU VERY MUCH FOR YOUR ATTENTION.

You're very welcome to follow us.

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