

CHEMISTRY THAT MATTERS™



COLLABORATION AT COMMERCIAL SCALE TO TURN MIXED PLASTIC WASTE INTO CERTIFIED CIRCULAR SOLUTIONS

DRIVING VALUE CHAIN COLLABORATION

“Go Circular Summit”

Mannheim (25/26 March 2026)

Gert Coun (Circular Innovation)

2 MEGA DRIVERS IN THE STRATEGIC INDUSTRIES WE SERVE



AGRICULTURE



AUTOMOTIVE



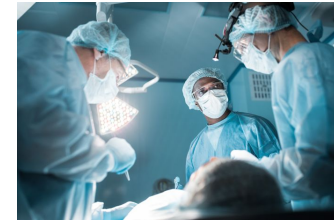
BUILDING &
CONSTRUCTION



CONSUMER
PRODUCTS



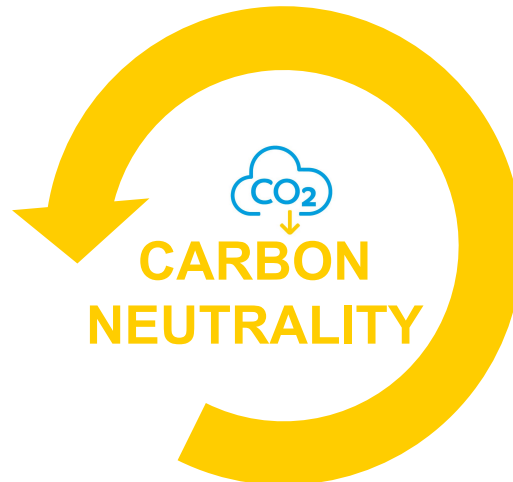
ELECTRICAL
& ELECTRONICS



HEALTHCARE
& HYGIENE



PACKAGING



THE LENS OF A RESIN PRODUCER FOR PACKAGING MARKET

= Link with Chemical Recycling



VALUE CHAIN COLLABORATION WITH ADVANCED RECYCLING AS ENABLER

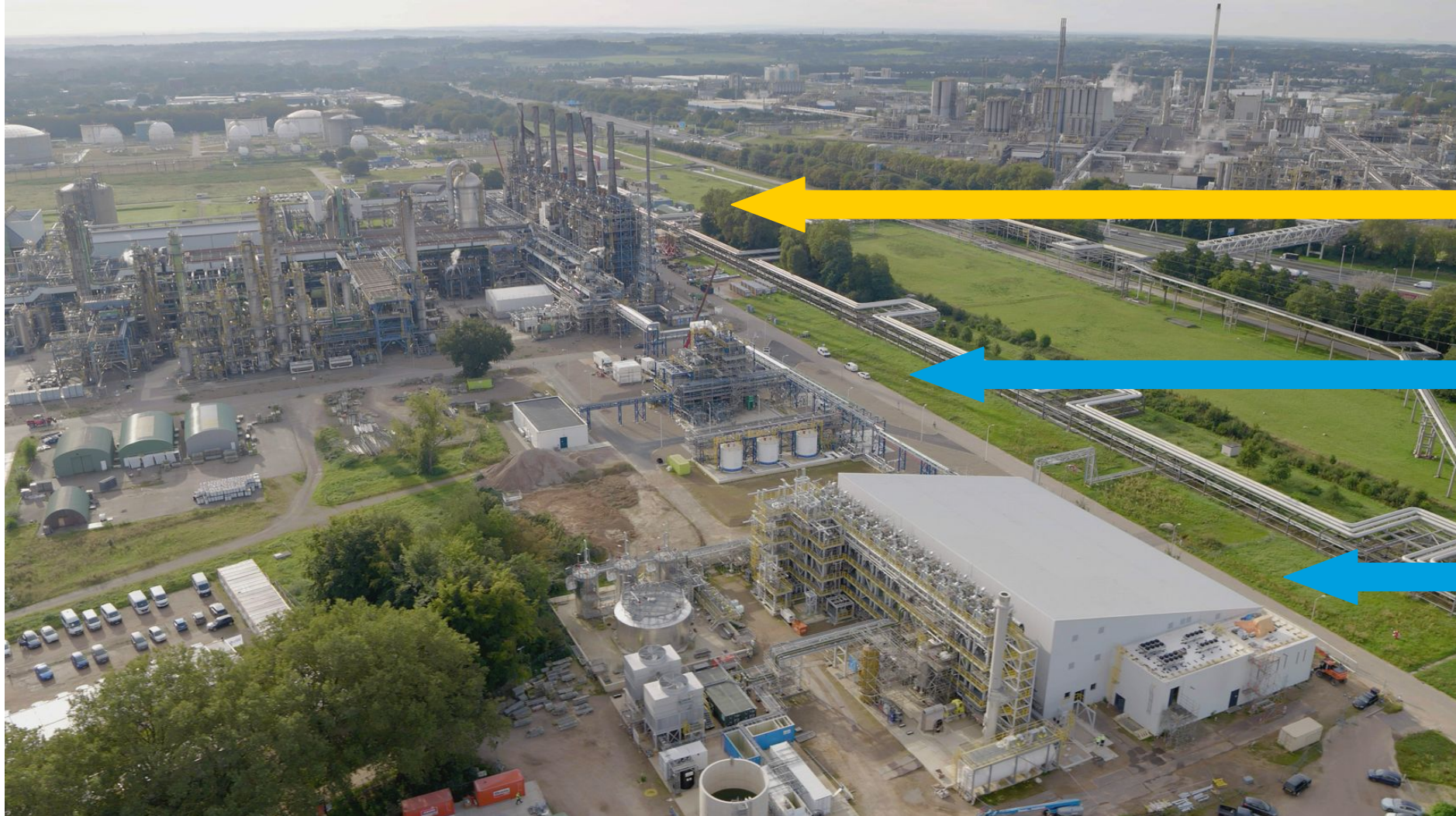


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INCLUSION VIA MASS BALANCE OF RECYCLED CONTENT IN FOOD AND COSMETIC PACKAGING WITHOUT CHANGE IN CHEMICAL COMPOSITION

ADVANCED RECYCLING UNIT - GELEEN (NL)



POLYMER PLANTS



STEAM
CRACKER



HYDRO-
TREATER



SABIC PLASTIC ENERGY ADVANCED RECYCLING B.V.

PYROLYSIS PLANT



MIXED PO WASTE

TIME TO START PREPARING NOW FOR PPWR

10%

Recycled content in contact sensitive plastic applications
(Food and Cosmetic Packaging)
by 2030

**Chemical recycling is a great option for applications
where identical chemical composition is enabling
consumer/end-user safety**

DRIVING CIRCULARITY WITH HOSPITALS

OCTOBER 2024 – CHALLENGE ADRESSED BY ZUYDERLAND HOSPITAL ON MEDICAL PLASTIC WASTE



HOSPITALS STRUGGLE WORDWIDE WITH PLASTIC WASTE MANAGEMENT



- **Ca 1700kT/year non-hazardous PE/PP medical waste in Europe is incinerated.....**
As solution provider we can support with creating circularity based on our Advanced Recycling Technology

PREPARING FOR THE FUTURE

CERTIFIED CIRCULAR PRODUCTS BASED ON MEDICAL WASTE ENTERING HEALTHCARE/HYGIENIC APPLICATIONS

DROP-IN SOLUTION
EQUAL PROPERTIES

PREPARING FOR HOSPITAL TENDERS
LOWER ENVIRONMENTAL FOOTPRINT
POSITIVE BRAND EXPERIENCE



CIRCULARITY IN PRACTICE



<https://www.youtube.com/watch?v=fm0GsrkVqQE>

WE CLOSED THE LOOP WITH FULL VALUE CHAIN COLLABORATION

DEMONSTRATING CIRCULARITY IN THE MEDICAL INDUSTRY



CIRHECA PROJECT

Led by Maastricht University, CIRHECA aims to recycle hospital waste into high-quality materials

Hospital plastic gets a second life: €3 million grant opens door to greater circularity in healthcare

18 September 2025

What began as a local pilot in the operating theatres of Zuyderland Medical Centre has now grown into a groundbreaking European initiative with global potential. Thanks to an EU grant of over €3 million, the CIRHECA project—Circular Transformation of Health and Care Systems in the Meuse-Rhine Region—is officially underway. Its mission: to stop burning clean plastic in hospital waste and instead recycle it into high-quality materials for reuse in medical applications.



A pile of plastic waste resulting from one surgical procedure (photo: Zuyderland Hospital)

→ [Faculty of Science and Engineering](#)



Interreg  Co-funded by the European Union

Meuse – Rhine (NL – BE – DE)


CIRHECA - MR

Hospitals are responsible for 8% of all plastic waste in Europe. Much of this material is clean and technically suitable for reuse, yet it often ends up in incinerators. Two pilot projects proved change is possible: Zuyderland Medical Centre developed a system to separate clean plastic waste in operating rooms, while SABIC and Jessa Hospital in Hasselt processed the plastic into new, identical-quality materials. This local circular solution is now being scaled up across Europe.

From regional innovation to international blueprint


Led by Maastricht University and supported by Interreg Meuse-Rhine, CIRHECA launched officially on 1 September. The consortium includes UM, Zuyderland Medical Centre, Jessa Hospital, SABIC, UniKlinikum Aachen, CHU Liège, and logistics partners L'Ortye, Gielen, and Horsch. Together, they process 4,200 tonnes of hospital plastic annually. But the ambition goes further: CIRHECA aims to create a scalable blueprint for international medical waste recycling, a model adaptable to hospitals worldwide.

TO CONCLUDE...



As leaders in the circular economy, we recognize that advancing chemical recycling is essential to meet the 2030 goal of 10% recycled content mandated by PPWR. We remain committed to collaborative efforts, thorough cost and benefit analyses to drive sustainable progress.

By fostering innovation and strengthening partnerships across the value chain, we can collectively support a more sustainable and resilient future.



LET'S COLLABORATE



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SABIC

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THANK YOU

