



Becoming Fully Circular

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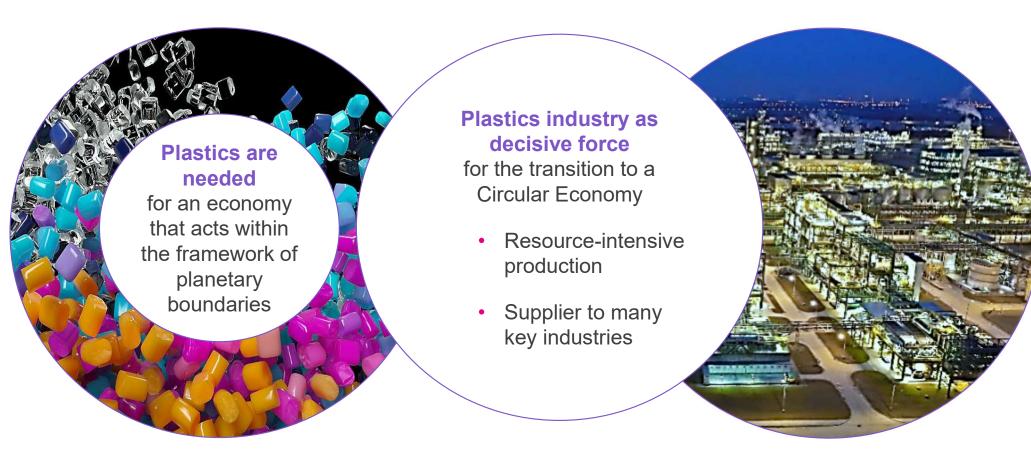
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Key to the Future

Plastics are driving the Circular Economy forward





Setting the path for tomorrow

Our commitment to circularity





BECOME FULLY CIRCULAR

Accelerate the transition to a fossil-free economy



DRIVE SUSTAINABLE GROWTH

Address sustainability in a profitable way

ADVANCE DIGITALIZATION

EXPAND 'WE ARE 1' CULTURE



BECOME THE BEST OF WHO WE ARE

Transform the company to exploit its full potential





Comprehensive Program

Four focus areas to promote the Circular Economy





Alternative raw materials



Innovative recycling



Renewable energy



Joint solutions

Long-term program

- Four core areas to promote the Circular Economy
- Company-wide strategic program





INTRODUCING THE WORLD'S FIRST

CLIMATE-NEUTRAL POLYCARBONATES

• With zero carbon footprint from cradle to gate,* thanks to the introduction of raw materials from mass-balanced bio-waste and residues and use of renewable energy.

*Cradle to gate is an assessment of a partial production life cycle from resource extraction to the factory gate, biogenic carbon included. According preliminary reviewed LCA impact assessment according to CML 2001 - Aug.2016.



11/22/2021 - Journey to the Future Seminar - Becoming Fully Circular Frank Dörner

Example: Sustainable raw materials for polycarbonate

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Use of waste and residual oils and fats

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BOREALIS

NESTE

Keep Discovering



Phenol produced for the first time from renewable hydrocarbons

Important building block for highperformance plastic polycarbonate, certified according to ISCC+

First delivery to Krefeld-Uerdingen site in October 2020



Series of Drop in Solutions to be introduced

Important step towards full circularity







Certified alternative feedstock serve as drop-in solutions

Alternative raw materials



ALTERNATIVE PHENOL/ ACETONE

- ISCC Plus-certified raw material
- Drop-in precursor for PC



Notes

ALTERNATIVE BENZENE

- ISCC Plus-certified raw material
- Drop-in precursor for MDI



PRODUCTION SITES

 ISCC Plus-certification for Covestro production sites





- First delivery of 1,000 tons of ISCC Plus-certified mass balanced phenol received in Q4 2020, another 2,000 tons received in Q1 2021
- Neste produced ISCC Plus-certified 100 percent bio-based hydrocarbons from renewable raw materials, such as waste and residual oils / fats
- Borealis converts hydrocarbons from Neste into ISCC Plus-certified phenol and acetone



- First delivery of 2,000 tons of ISCC Plus-certified mass balanced benzene received in Q1 2021
- Resulting product quality on par with petrochemical-based MDI
- Drop-in solution with alternative raw material helps clients to reduce carbon footprint



- ISCC Plus-certification for Covestro sites received
 - for PC made in Antwerp, Belgium, Uerdingen, Germany, and Shanghai, PRC
 - for MDI made in Uerdingen, Germany, and Shanghai, PRC
- Drop-in solutions for customers with constant product quality compared to fossil-based product

ISCC: International Sustainability and Carbon Certification, internationally recognized system for sustainability certification of biomass and bioenergy In this context, "alternative" generally describes products with an attributed share of certified renewable feedstock via mass-balance approach



Thank you for your attention!





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