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A sustainable circular economy comprises several levels that must be consistently considered in terms of the outcome. It is not just a matter of recycling materials, but also precluding the occurrence of new types of hazards or negative side effects, avoiding existing disruptive factors, and eliminating contaminants and hazardous substances from product and life cycles. Hardly any other form of economy requires such foresight in its planning and strategic engagements as the circular economy. Consequently, a highly competent and mindful management is needed – in science, business and politics.”

Prof. Dr. Andrea Büttner
Board of Management CCPE | Head of Institute Fraunhofer IVV



Transparency in the LCA: What is the environmental impact of recycled plastics?



There is a growing demand for information on the environmental impact of the use of recycled plastic. However, publications and reliable data are rare. Now is the time for industry, academia and policy stakeholders to share ideas and reach a consensus on how to model the environmental impact of recycled plastics. This is exactly where the Fraunhofer CCPE compact on 20 June 2024 on "Impacts of recycled plastics – A stakeholder approach to find consensus in LCA" comes in. Dr Anna Kerps and Tanja Fell give us an initial insight in this interview.

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News from the CCPE research

Geosynthetics: Sustainable landscaping with bio-based polymers



Is it possible to develop plastics for

Highly resilient and recyclable UD tapes made from stereocomplex PLA



High-performance technical fibers are used

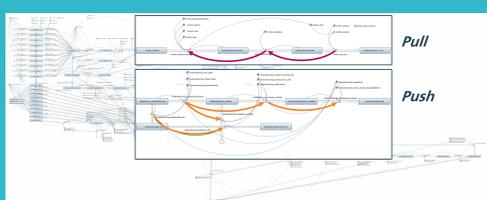
landscaping from bio-based polymers? Can products be manufactured without environmental problems and with controlled degradation? It is exactly these questions, which are important for a large number of commercial products, that the Fraunhofer CCPE is focusing on in its new research area.

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in various applications, but they are often made from fossil raw materials and are not biodegradable. This is where the "scPLA-UD-Tape" project of the Fraunhofer Cluster of Excellence Circular Plastics Economy CCPE comes in, with the aim of creating intrinsically reinforced materials for lightweight construction that are highly resilient, biodegradable and significantly easier to recycle.

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System mapping: Which strategy is best in the circular economy?



Can we achieve our sustainability goals with recycling? What other strategies are there in the circular economy and how do they differ in terms of their long-term effects? What role do market dynamics play and how do the processes influence each other? Companies will inevitably encounter such questions at some point in the transformation to a circular economy.

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Decision support: Information visualisation for the circular economy



In the circular economy, it is not just knowledge of the available recycling options that is important, but also the user's personal circumstances. Researchers at Fraunhofer CCPE have therefore developed an innovative information visualisation that makes it easier to deal with end-of-use products.

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You can meet us here

June 10-14, 2024

**Fraunhofer CCPE at the
ACHEMA 2024**

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June 20, 2024

**Fraunhofer CCPE compact
"Impacts of recycled plastics – A
stakeholder approach to find
consensus in LCA"**

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