

## **Advanced Recycling Conference 2025 – Christine Weiß/Evonik**

Titel: Polyurethane Recycling: Key Influences and Challenges in the Circular Economy

Abstract:

The transition from a linear to a circular economy is essential for mitigating the environmental impacts associated with resource depletion and waste generation. As planetary boundaries continue to be exceeded, addressing climate change becomes increasingly critical. This presentation will explore the potential of chemical recycling as a viable solution, focusing on the recycling of soft polyurethane foam used in mattresses. Beyond the development of effective recycling technologies, the establishment of efficient waste recirculation systems and the development of integrated circular value chains are equally essential. Moreover, the regulatory frameworks that must be navigated to facilitate these innovations and ensure sustainable practices within the industry will be examined. By analyzing these interconnected components, pathways toward a more sustainable and resilient economy will be illuminated.