InnoKuR - A path to climate-friendly plastics by replacing fossil raw materials

»Utilizing waste biomass as steam-cracker feedstock: new developments in conversion technologies and novel approaches to downstream processing«

Our aim: Make conventional plastics CO2-neutral by replacing fossil raw materials with renewable ones.

The audience will be able to learn more about an innovative approach for the production and processing of pyrolysis oils from biogenic residues as an alternative, non-fossil carbon source for the petrochemical industry.

We will introduce Thermo-Catalytic Reforming technology, a combined pyrolysis and reforming process that generates stable, high-quality crude oils from biogenic residues, which can be co-processed in a refinery. Additionally, we will showcase novel methods for the post-treatment of biogenic pyrolysis oils to meet the specifications required by steam crackers.



Hydrogenation plant at Fraunhofer UMSICHT



TCR Demonstration plant at Fraunhofer UMSICHT



