

NOTE

26.01.2021

Subject	Renewable Materials Conference
Object	Presentation on Chemical Recycling
Action	Abstract for submission to Nova Institute

Regeneration of Resources from Mixed Waste by CARBOLIQ Technology

Catalytic Tribochemical Conversion (CTC) is a single stage catalytic liquefaction process characterized by its applicability on a variety of feedstocks (biomass like agricultural waste as well as polymers like mixed plastic waste). It operates at temperatures of less than 400 °C, at atmospheric pressure applying friction as the only source of energy and using catalyst as a consumable.

RECENSO subsidiary CARBOLIQ has applied CTC technology to standard RDF (SRF) and runs a demo plant in industrial scale at the waste center in Ennigerloh Germany. The presentation will introduce the technology, the installation, the new resource produced and its use as a circular resource for new polymer production. It will end with an estimate on the potentials in feedstock substitution and GHG savings for Germany and the EU.