

FUREC: from waste to feedstock

Ingo Birnkraut
CEO & Managing Director, RWE Technology International GmbH
Essen, Germany

Keywords: Circular feedstock, CO₂ reduction, waste to feedstock, hydrogen, syngas, innovation

Abstract

FUREC is a technical innovation project, that converts non-recyclable waste into circular feedstock and Hydrogen for the chemical industry.

Via this platform more than 450 kt CO₂ reduction per year can be achieved. The CO₂ reduction was one of the drivers for the project to be awarded with a grant from the EU Innovation Fund.

The first project is divided in two locations:

- On one harbour location the municipal solid waste (675 kton/a) is treated, partly via RWE developed and patented systems, and transformed into SRF pellets.
- On a second location close to an industrial chemical site the pellets are torrefied and gasified to produce syngas which will be further processed to be able to deliver approximately 54.000 ton/a of hydrogen to surrounding chemical plants. This document provides format for preparing abstract for publication in the IERE General Meeting, Forum and Workshop.

note: This document will be opened to the participants on IERE website before the Forum and opened to the public afterward.