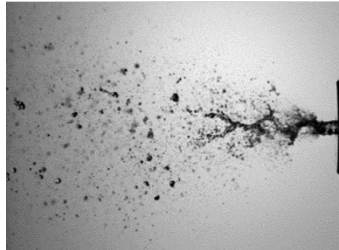
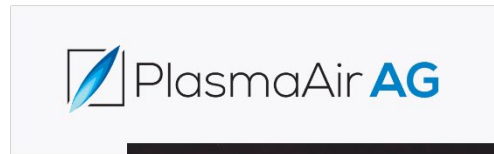
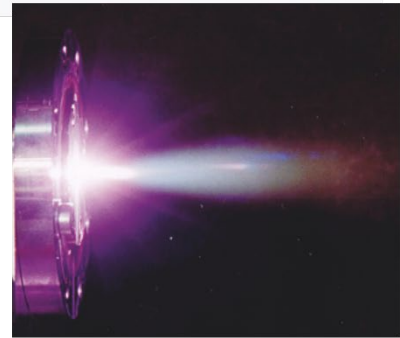


Plasma-Assisted Fluidized-Bed Gasification for the Carbon Cycle Economy



SprayPlas



Gefördert
durch



Baden-Württemberg
Ministerium für Wirtschaft,
Arbeit und Tourismus

The Institute for Technical Chemistry at KIT (KIT-ITC), in collaboration with its industry partner PlasmaAir AG, has launched the **SprayPlas** project, which is intended to contribute to the decarbonization of the chemical industry.

In the chemical industry, fluidized-bed gasifiers currently operated with crude oil provide the raw material for numerous carbon-based products. Replacing crude oil with pyrolysis oil, produced from mixed plastic waste and biogenic residues, offers a quick path to a carbon cycle economy and defossilization, based on existing production pathways.

As part of the **SprayPlas** project, KIT-ITC and PlasmaAir AG jointly develop a prototype of a plasma-assisted entrained flow gasifier, that will be operated and evaluated at the Institute of Technical Chemistry.

With this step, we lay the groundwork for more efficient and lower-emission value chains in the chemical industry and contribute to the industrial transformation towards closed carbon cycles.

KIT-ITC and PlasmaAir AG like to express their gratitude for the two-year funding of the project by the Baden-Württemberg Ministry of Economic Affairs, Labor, and Tourism as part of the Invest BW program.