

Innovation path

Gas cleaning test rig

Test of different cleaning agents for sulphur recycling as well as for cleaning of synthesis gas



The container holds test equipment, online analysis as well as control technology. The container is prepared for transportation by truck and serves since 2021 in the framework of several publicly funded projects at Darmstadt University.



Cascade of stirred reactors for basic experiments

Basic values, like kinetics and turnover, are determined by means of the stirred reactors. Different parameters are varied, e.g. concentration of the absorption agent, H_2S in gas, volumetric flow of the gas, temperature, addition of catalysts.

Plate column for continuous operation

The column works continuously and correlates with a cascade of stirred reactors. The column module delivers the basic values necessary for a scale-up to full size plants, including an economic evaluation of the respective gas cleaning processes.



Lara

LIG x LIQ

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Powering Chemicals from Waste