Gas Processing Technology

From idea to plant

Services

- Techno-economic process analyses
- Process development and optimisation
- Chemical reaction studies
- Process and reactor simulation
- Basic and detail engineering
- Thermal design of reactors/heat exchangers

Our R&D topics

- H₂- & CO- generation /rWGS, reforming processes (SR, ATR, POX)
- Power-to-X-processes
- Utilisation of biogas (BtX)
- CO₂ use (CCU)
- Synthesis of liquid energy carriers (PtL)



Contact

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Gas Processing Technology

Process Studies and Simulation Engineering Reaction Design and Experiments



Process Studies & Simulation

The material use of hydrogen and / or biogas offers opportunities to provide sustainable products and to reduce emissions from existing processes - depending on the specific boundary conditions. We would be happy to support you in the site analysis and evaluation of concrete options.

- Potential and needs studies
- Concept and feasibility studies
- Process simulation and analysis
- Simulation of apparatus (reactors, mixers, heat exchangers)

Engineering

From the idea to the plant. The engineering team supports you in the area of consulting through all planning phases up to the finished system. Thanks to in-house production, control cabinets and laboratory systems can be built and automated according to customer requirements. Commissioning and process optimisation are carried out at the customer's premises or on site with the help of extensive measurement technology.

- Basic- and Detail-Engineering
- Risk assessment and certification
- Planning and construction of laboratory facilities
- Electrical planning and control cabinet construction
- PLC programming and automation

Reaction Design & Experiments

Our diverse field of work includes reaction engineering investigations of catalysts, reactor modelling and on-site metrological monitoring of your processes. In addition to our in-depth know-how, our powerful simulation software, extensive analytics and laboratory facilities, as well as semi-industrial-scale facilities for application-oriented investigations are available to you.

- Catalyst screening
- Kinetic studies
- Reactor simulation and design
- Test Prototyps
- Scientific Support / Consulting



Your contact



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