Project Groups of „Future Energy Technology“:

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Gasification & Gas Cleaning
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Gasification & Gas Cleaning

The GGC team focuses on projects from the energy technology sector with a specification on gasification technologies as well as catalytic tar removal from producer gas originating from thermo-chemical hydrocarbon conversion processes.

**Mission:** Development of fuel flexible, high efficient gasification technologies for the production of high quality syngas.

**Research topics:**

- Dual fluidized bed steam gasification of biomass, coal, waste materials
- Producer gas adaptation by catalytically active bed material
- Catalytic reforming of hydrocarbons in secondary units
- Research and development on novel of gas cleaning technologies
Gasification & Gas Cleaning

Results with the 100 kW test plant at TU Wien:

- Development and research on novel gasification processes
- Measurement results and data validation with simulation tool
- Detailed process knowledge with various fuel types and fuel mixtures
- Data for the design of gas cleaning equipment
- Scaling possibility to industrial sized plants, minimizing of technological risks

- wood
- agricultural waste
- coal
- industrial residues
- waste fractions
Gasification & Gas Cleaning

Consulting plant engineering projects:

- Design and conceptual consultancy
- Mass and energy balances of industrial sized plants
- Input for the basic engineering phase
- Support due to the commissioning of plants
- Optimization on plant operation
Head of the “Project Group” within the
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