NGCC
Advanced Gas Treatment

Applications & Technologies Offered By NGCC

A. Sulphur Removal (H_2S, RSH) from Gasses (NG-MODULES):

- New Technology Basis (Electro-Catalytic Principle)
- Extreme High Performance
- Low Specification Range (ppbV) as guaranteed
- All Sulphur components transformed to Elemental Sulphur
- Zero Waste

→ Test Container Modules Available (25-50 Nm^3/h)
→ Industrial designs possible ranging 100 up to 10.000 Nm^3/h (modular unit)

B. CO_2 Methanation to CH_4 :

- New Technology Basis (New Advanced Catalyst System)
- Extreme High Performance (>90% conversion rate)
- Mild Operational Conditions: 280°C / 8 barg
- Upstream NG-Module to remove H_2S to ppbV range

→ Industrial designs possible ranging 100 to 3000 Nm^3/h (modular system)
→ Total Concept Design possible - including all system elements:
(pre-treatment, methanation reactor system, H_2 electrolyzer supply system)

C. Gas conversion to Liquid Fuels (GTL):

- Modular, Skid-Based - Small to Mid-Size Units
- Technical Co-Operation with Calvert Energy Systems
- Extreme High Performance, smallest food print
- Lowest Energy consumption (electrical energy/steam)
- New Advanced Technologies like Plasma Reforming