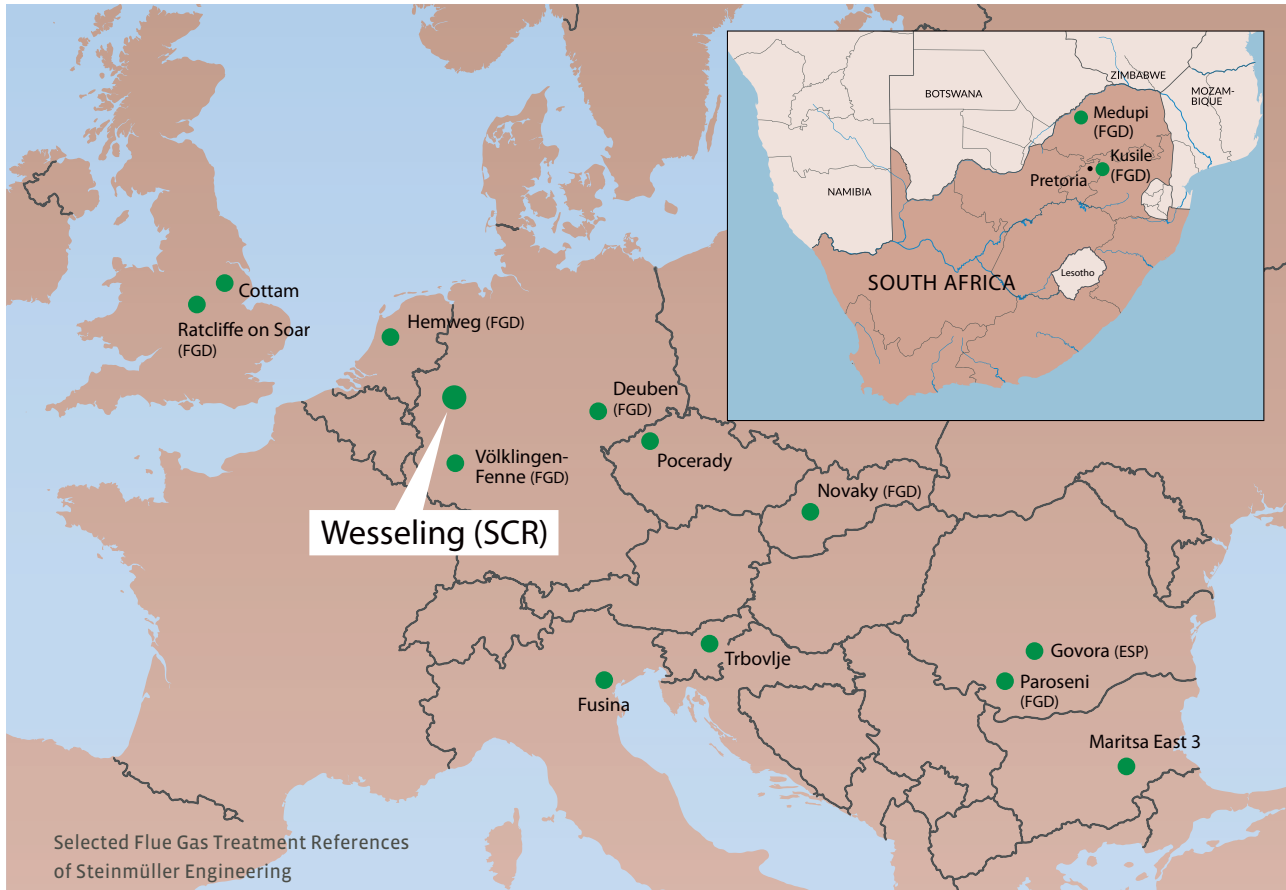


Shell Rheinland Raffinerie, Wesseling

Retrofit and Supply of LowNO_x Burners and
Selective Catalytic Reduction (SCR) Plant

Flue Gas Treatment



Achievements:

NO_x: < 140 mg/m³

CO: < 40 mg/m³

NH₃ slip: < 1 mg/m³

(STP @ 3% O₂)

NH₃ profile: < 3% maldistribution at SCR inlet

Fuel: Blended heavy fuel oils and various refinery gases

Boiler design: 2-pass boiler, natural circulation with front wall firing system, 8 burners

Scope of Supply:

- Feasibility study and conceptual design
- Basic engineering for steam generator, furnace and SCR plant
- Detailed planning
- Supply and installation of new burners and SCR plant
- Commissioning and acceptance test

Literature can be provided on request

- Presentation on Steinmüller Engineering Conference 2013

Please contact us for further information.

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