



SNCR Technology

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Selective Non-Catalytic Reduction (SNCR) is a proven technology for achieving cost-effective fossil fuel NO_x emission reductions. SNCR employs the selective chemical reaction between ammonia and nitrogen oxides within a well defined temperature range on a boiler or combustion device to reduce emissions. CORMETECH's process typically uses solutions of either ammonia or urea to achieve NO_x reductions from 25% up to 50%.

System Requirements

- SNCR technology has been widely applied to most boiler firing configurations.
- Typical applications include coal, oil, gas and biomass fired boilers and cement kilns.

Our SNCR Experience

- Applications installed and operating on Units ranging from 15 MW to 640 MW.
- Operating Units firing coal and biomass fuels.
- Urea and ammonia based reagent systems
- Firing designs include T-fired, wall-fired, cyclone and stoker configurations.

CORMETECH's scope of supply for SNCR technology includes the following:

- Develop Furnace temperature profiles
- Perform computational fluid dynamics (CFD) and chemical kinetic analysis to create a site specific process model
- Complete detailed system engineering
- Fabricate and Supply Process equipment
- Turnkey equipment installation service
- Construction management support
- Control System integration
- Operator Training & Instruction
- SNCR performance testing and optimization

Economic Benefits

- Simple install - short schedule required
- Low cap. cost NO_x reduction option
- Typical operating cost in the range of \$800 to \$1200 per ton of NO_x removed



CORMETECH's design urea unloading and storage facility

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CORMETECH
RELIABILITY. DELIVERED.