

SCR Optimization



Take Your SCR Technology a Step Further

SMARTPROCESS™ OPTIMIZATION TECHNOLOGY

Application

With the dramatic upsurge in power plant generation capacity and increased regulatory pressure to decrease NOx emissions, many utilities have turned to SCR (Selective Catalytic Reduction) technology for emissions reduction. The SmartProcess SCR Optimization solution takes standard SCR technology a step further to boost the performance of the existing SCR investment.

The SCR Optimization solution collects and evaluates data to predict the temperature, ammonia usage, and flue gas composition that will improve NOx removal, as well as the financial impact that making adjustments will have on the bottom line.

Strategy

Safety Improvements

The SCR Optimization solution reduces the possibility of ammonia leaks and other hazardous conditions, making the plant safer for personnel.

Cost Reduction

By improving the performance of the SCR, the SCR Optimization solution also reduces the amount of catalyst needed, thereby reducing associated costs.

Automatic Adjustments

The SCR Optimization solution automatically adjusts the SCR system parameters to decrease inefficient use of the catalyst.

Emissions Control

NOx conversion increases as the SCR Optimization solution improves the overall performance of the SCR technology.

Results

- Lowers operating costs
- Maintains optimum temperature and pressure
- Increases the conversion of NOx
- Monitors cost impacts of SCR performance
- Minimizes the rate of oxidation of SO₂ to SO₃

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