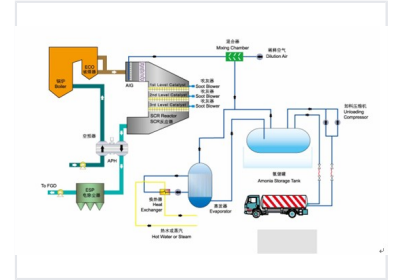


# Selective Catalytic Reduction (SCR) System for NOx Removal

This system utilizes selective catalytic reduction (SCR) technology to remove NOx from flue gas. The process involves injecting ammonia into the flue gas stream, which then reacts with NOx over a catalyst to form nitrogen and water.



## System Overview

### Selective Catalytic Reduction (SCR) System

The SCR system is a high-performance solution designed for the effective removal of nitrogen oxides (NOx) from flue gas. By injecting ammonia into the gas stream, the system facilitates a catalytic reaction that decomposes harmful emissions into harmless nitrogen and water. This versatile technology is optimized for stable operation across various fuel-burning boilers and industrial waste incinerators.

## Process Mechanics

### Core System Components

- Ammonia Storage Tank
- Ammonia Injection Grid (AIG)
- SCR Reactor with multi-level catalysts
- Mixing Chamber
- Soot Blower System
- Evaporator and Heat Exchanger

### Integration Points

Boiler, Economizer (ECO), Air Preheater (APH), Electrostatic Precipitator (ESP), Flue Gas Desulfurization (FGD)

## Performance Features

### Key Operational Metrics

**100 %**

Removal Efficiency

### Compatible Applications

Fuel-burning Boilers • Waste Incinerators