



# SCR and CO Catalyst Systems

Power Market

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## SCR and CO Catalyst Systems

**FOR TRUSTWORTHY EMISSION REDUCTION**

Innova's Selective Catalytic Reduction (SCR) & Catalytic Oxidation (CO) catalyst systems provide optimum NO<sub>x</sub> and carbon monoxide conversion with minimum impact on pressure drop and turbine efficiency. Our leading-edge designs, produce high NO<sub>x</sub> reduction and low ammonia slip with lasting results.

Stricter regulatory compliance has pushed the need for cost effective technology that is proven to perform and meet emission targets. This is crucial for plant operation and productivity. With experienced engineers, innovative technology and superior quality control we can help you meet your emission requirements while providing effective and productive systems.



**FILTER HOUSE FOR BRUSH GENERATOR**

## Benefits

- » Compact system footprint
- » Low pressure drop
- » Extensive quality control process
- » Low cost operation
- » Dependable performance
- » Guaranteed compliance
- » Noise attenuation for low frequency and/or octave band
- » In-house team of SCR/CO experts and acousticians ensure the most acoustically balanced design possible

## Features

- » Unique and patent pending ammonia injection grid for more efficient exhaust gas/ammonia mixing
- » Superior sealing of catalyst to frame and liners to prevent untreated exhaust gas by-pass
- » Aqueous/Anhydrous ammonia or Urea based systems available
- » Modular construction

## Add-on Services

- » Acoustical consulting
- » Retrofit available to any site worldwide
- » Field technical assistance / installation
- » Commissioning

## Add-on Products

- » Higgott-Kane™ silencing system
- » Bypass system with diverter damper
- » Turbine exhaust diffuser
- » Integration of SCR into existing HRSG or supply of complete SCR with HRSG
- » Anti-icing system / inlet heating system
- » Acoustic buildings, barriers and enclosures
- » Ventilation, electrical components and fire detection and suppression
- » Expansion joints

## Engineering Competencies

- » Catalyst selection
- » Acoustic design
- » Structural / mechanical design
- » Design confirmation with CFD and physical scale models
- » Extensive site testing for both emissions and noise

## Leverage our Experience

Effective NO<sub>x</sub> and CO reduction starts with a balanced design approach to ensure the overall plant's needs are taken into consideration and the most cost-effective solution is developed. Complete technical knowledge of all the critical variables are key to the design and performance of the SCR/CO system.

Our SCR team's 40 years' experience on 30 sold units offers thorough understanding of turbine exhaust gas flow, ammonia injection and mixing, SCR catalyst selection, ammonia vaporization systems, tempering air requirements and fabrication and installation.

Our engineers will work with you to fully design a SCR/CO catalyst system that encompasses all your emissions needs. Innova is your single source partner.

## DESIGN SOFTWARE TOOLBOX

- Finite Element Analysis (FEA)
- Computational Fluid Dynamic Analysis (CFD)
- Physical Flow Modeling
- Autodesk Inventor
- Ansys CFX analysis



Balance Without Compromise™

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