



# Exhaust and Catalyst Systems

Oil & Gas

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## Exhaust and Catalyst Systems

FROM A PROVEN SINGLE SOURCE

Innova can design, supply and install your next exhaust and catalyst system for your reciprocating engine or small gas turbine, eliminating the need for multiple suppliers. Our engineers can integrate a system into your site anywhere worldwide and reduce your noise, NO<sub>x</sub>, CO, and VOC emissions — guaranteed.

### Applications

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- » Compressor stations
- » Gas processing facilities
- » Gas plants
- » SAGD installations
- » LNG facilities
- » Upgraders
- » Storage facilities
- » Power production
- » Drilling sites
- » Petrochemical plants
- » Refineries
- » Pump facilities



EXHAUST CATALYST AND SILENCER FOR A MARS 100 GAS TURBINE

## Benefits

- » Turnkey installation option
- » Low cost, guaranteed integrated designs
- » Stringent emissions reduction
- » Reliable and economical performance
- » Designated to strictest acoustic standards

## Features

- » Urea or ammonia systems
- » Minimal ammonia slip
- » Superior sealing of catalyst to prevent untreated exhaust gas by-pass
- » Extensive quality control process
- » Ground or skid mounted

## DESIGN SOFTWARE TOOLBOX

- Full Autodesk building and product design Software Suite: Inventor, Revit, Navis Works, Autocad, 3DsMAX, Design Review and Vault
- Ansys Multiphysics
- Ansys CFX for Computational Fluid Dynamic analysis
- CadnaA for outdoor noise propagation
- Odeon for interior noise analysis

## Add-ons

- » Inlet filtration
- » Inlet silencing
- » Acoustic buildings, barriers and enclosures
- » Environmental noise surveys
- » Retrofit of existing equipment

## Balanced Design Approach™

Our cost optimization of a specific site's noise attenuation requirement balances the cost of the exhaust system with an acoustical building or barrier walls and other silencing measures. This enables us to deliver the most advanced acoustical technology in the most cost-effective manner.

## 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
- » Ammonia injection and distribution design

## Site Wide Noise Compliance Guarantee

Silencing a new or existing facility is Innova's specialty. Our construction engineers and noise consultants can conduct a site survey to gather the acoustical and facility information needed to develop the most cost effective noise control solution. Our exhaust systems are based on proven acoustic designs providing guaranteed results. Working with Innova gives you the peace of mind and the knowledge that your project is in good hands.

## Leverage our Experience

Innova is the industry supplier of choice, with 40 years of experience in 54 countries on over 3,500 completed projects. It's the combination of our state-of-the-art design, extensive construction experience, award winning safety record and portfolio of proprietary equipment that guarantees the success of each and every one of our projects.



Balance Without Compromise™

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