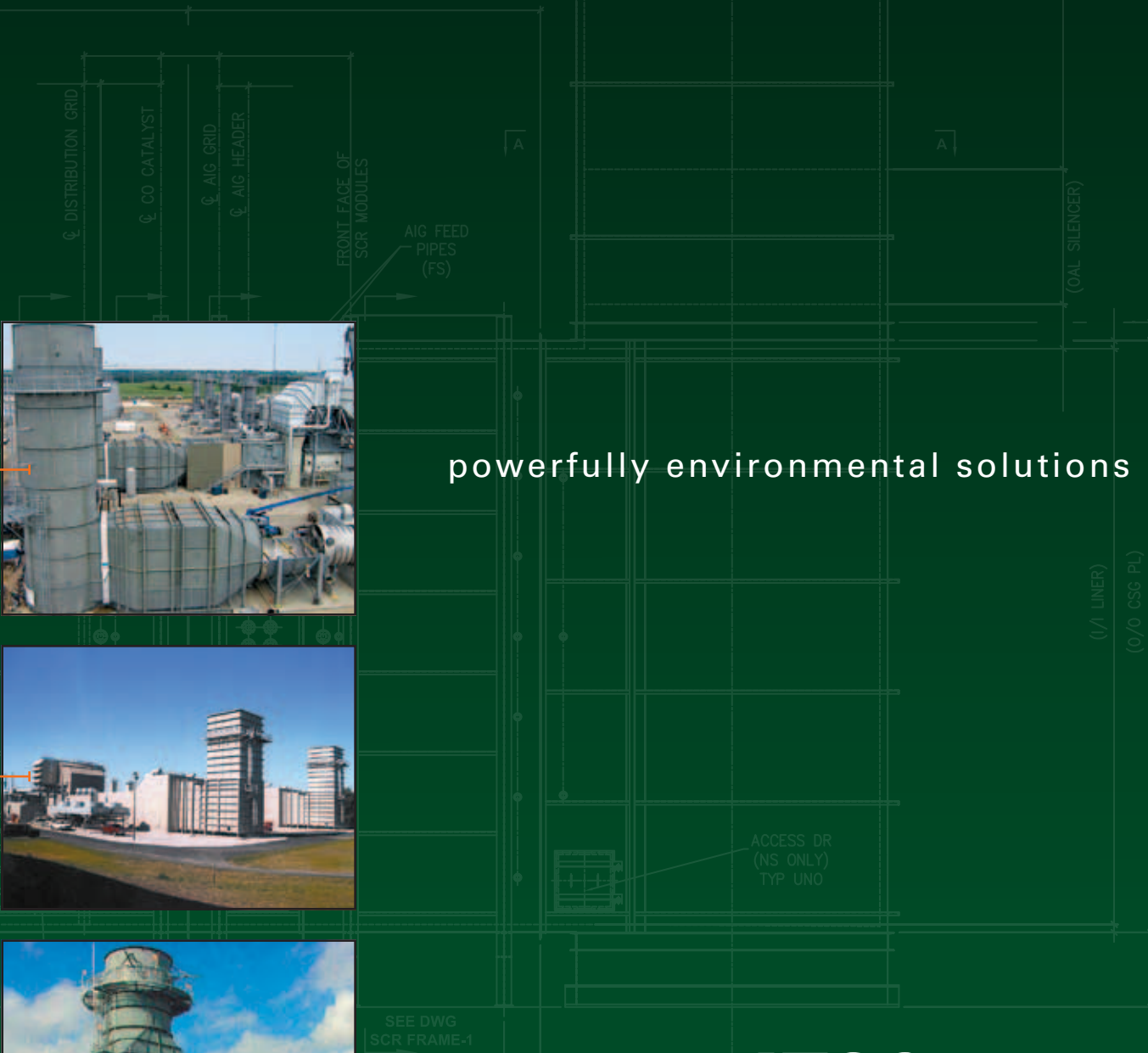


# Simple Cycle Catalyst Systems



powerfully environmental solutions

**ATCO** *EnviroTech*  
A DIVISION OF ATCO STRUCTURES & LOGISTICS

# The EnviroTech Advantage

With our new environmental product lines, **Higgott-Kane** has been appropriately renamed **ATCO EnviroTech**. We continue to offer the wealth of engineering expertise and attention to quality that comes from being a **recognized OEM supplier** of GT exhaust systems. This, combined with over **40 years of in-house staff catalyst design experience**, gives you the assurance that your simple cycle catalyst system (SCR) will be delivered on-time, installed trouble-free and perform to specifications.

Benefit from the comfort of dealing with a company that is part of an organization with over **7,700 employees and \$9.8 billion in assets** worldwide. ATCO EnviroTech is a division of ATCO Structures & Logistics and part of the ATCO Group of Companies. This allows us to provide levels of **Performance Bonds** and **Errors and Omissions Insurance** to meet any project requirement.

Gas turbine simple cycle catalyst systems need to perform precisely, removing NO<sub>x</sub>, CO and noise while minimizing ammonia slip. The system is placed in the most demanding environments in industry; the hot, high velocity, swirling gases produced by a gas turbine engine. ATCO EnviroTech offers the **design experience** and **financial strength** to give you **peace of mind**.

## Design Expertise

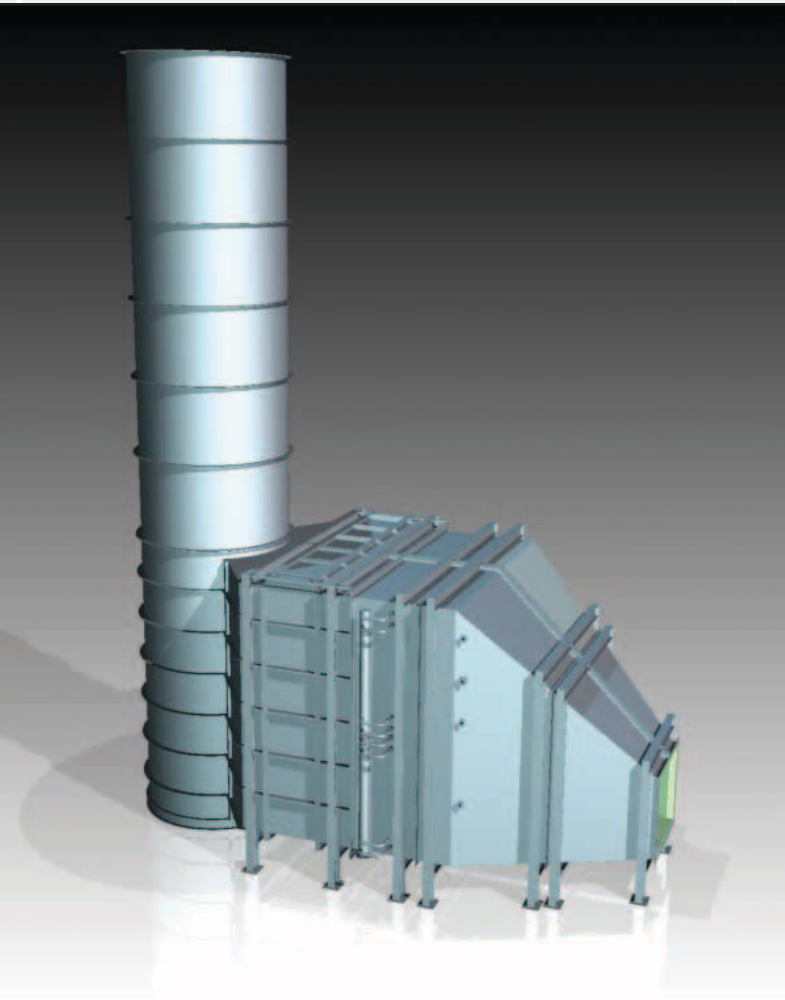
Our simple cycle catalyst systems draw from over 30 years of Higgott-Kane GT exhaust system OEM design experience. All system elements are designed using our in-house engineers and state-of-the-art software, including:

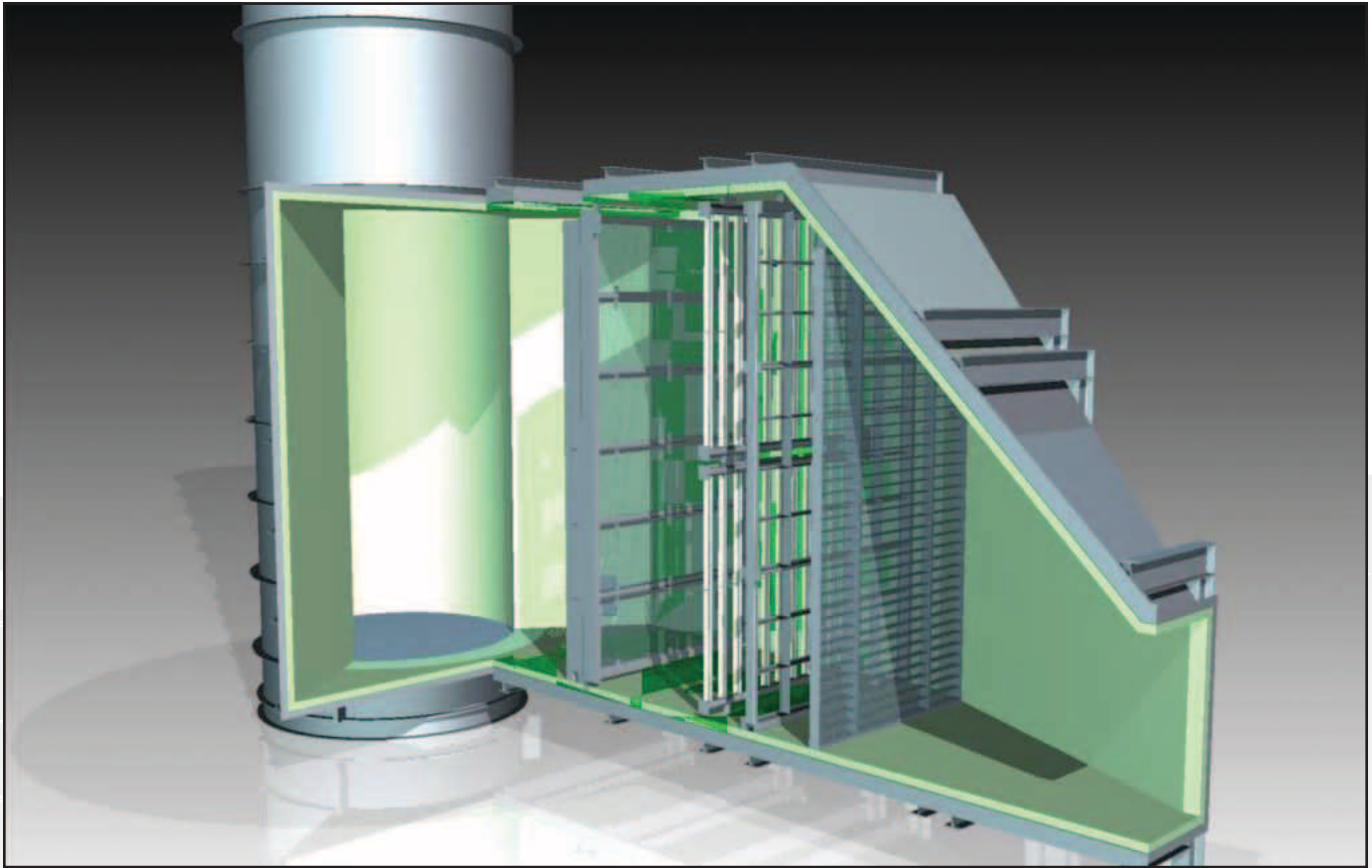
- Finite element analysis
- Computational fluid dynamic analysis
- Acoustic design
- Structural / mechanical design

## Leading-Edge Designs

With the financial strength of the ATCO Group, we are able to engage in leading-edge design development activities that put us in the forefront of the simple cycle catalyst market. Complemented by our staff project experience, some of these key design features include:

- Critical low frequency or octave band noise attenuation
- Unique ammonia injection grid design for more efficient exhaust gas/ammonia mixing
- Superior sealing of catalyst to frame and liners to prevent untreated exhaust gas by-pass
- Design confirmation through CFD and physical flow models
- Improved system efficiencies, resulting in more compact system foot-print, reduced cost and lower pressure drop
- Fast-start ammonia vaporization system development





## Catalyst Selection

Selection of the correct catalyst is critical to meeting performance guarantees, while optimizing the system design. ATCO EnviroTech offers the following advantages:

- Relationships with all key CO and SCR catalyst suppliers
- In-house staff catalyst system project experience
- Complete technical knowledge of all critical selection variables

## Superior Quality Control

ATCO EnviroTech successfully manages sub-vendor fabrication facilities worldwide to meet even the most stringent OEM requirements by:

- Providing extensive fabrication process and technique training
- Local sourcing of materials
- Establishment of a critical features list and inspection hold points
- Extensive QC documentation

ATCO EnviroTech ensures fabricators adhere to our stringent quality assurance standards as set out by our ISO 9001 certification.

Our worldwide fabrication base continues to grow in order to provide lower cost fabrication, and to minimize transportation costs.

## Optimized Approach

ATCO EnviroTech possesses the unique capability of performing all simple cycle system design functions under one roof. This ability allows us to balance and optimize between pressure drop, acoustical performance and emissions requirements seamlessly, resulting in:

- Mitigated risk, due to single point responsibility
- Reduced cost and/or higher performance from design balancing
- Improved project execution

Please talk to us about how we can help you meet your NO<sub>x</sub>, CO and noise emissions requirements, while improving your bottom line. Join our many repeat OEM, EPC and end-user clients who enjoy the ATCO EnviroTech advantage.

# **ATCO** *EnviroTech*

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