

SIMPLE CYCLE EXHAUST SYSTEMS



Vogt Power
International
a Babcock Power Inc. company

SIMPLE EXHAUST SYSTEMS

| FEATURES | BENEFITS |
|---|--|
| Selective Catalyst Reduction (SCR) | Efficient NOx removal |
| High temperature catalysts | Designed for 800–1050°F |
| CFD flow modeling | Performed internally for each design |
| Oxidation Catalyst (OC) | Controls oxides within emissions standards |
| Flow modeling | Optimizes flow patterns and distribution |
| Tempering air system | Reduces exhaust gas temperature |
| Ammonia Injection Grids (AIG) | Cost effective, efficient delivery to SCR |
| Silencers and shrouds | Superior noise abatement |
| Long catalyst life expectancy | 3 to 6 years based on plant operation |
| Sampling and NH ₃ consumption/slip | Monitors catalyst activity |
| Sampling coupons or test blocks | Determines catalyst replacement |
| Significant scalability | Combustion turbines > 25 MW |



LEADING SERVICES & TECHNOLOGIES

Vogt Power International Inc., a Babcock Power Inc.® company, is an industry leader in the design, manufacturing, and supply of heat recovery steam generators, including Simple Cycle Exhaust Systems.

Vogt provides a myriad of engineering, design, and project management services, including in-depth analysis of high temperature and turbulent combustion turbine exhaust, and hot casing design. Our CFD flow modeling – for every design throughout the Simple Cycle Exhaust Systems – ensures proper mixing and even temperature profiles for catalyst system emission reduction.

Vogt also designs noise abatement systems, verifies predicted attenuation requirements through field testing, and provides Simple Cycle Exhaust Systems that include anhydrous and aqueous ammonia injection systems, ammonia injection grids, balancing valves, ammonia piping, AFCU skids, and even ammonia storage tanks.





COMPREHENSIVE AFTERMARKET VALUE

Vogt Power's engineers have the know-how and experience to best help customers enhance their existing **Simple Cycle Exhaust Systems**, developing preventative maintenance programs and refining virtually any turnkey operation with the latest in exhaust system technologies.

SKILLED PROJECT MANAGEMENT SERVICES

Vogt Power offers customers a variety of value-added project management services, including the design of **Simple Cycle Exhaust Systems** modifications, structural and thermal stress analyses, time-life studies, ROI studies, and state-of-the-art CAD services.



SAFETY³ PEOPLE. POWER. PROJECTS.

We're giving safety the third degree.

Babcock Power Inc. and its subsidiaries place the safety, health and security of our people at the core of our company values. Our team is our most valuable resource, generating solutions everyday to deliver safe, clean, reliable energy globally. With a keen focus on safety, Babcock Power Inc. conducts business in a manner that protects our people, our customers and the environment. From innovation to generation, we are proud of our award-winning safety record and are committed to operating with integrity and excellence.

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