BABCOCK POWER ENVIRONMENTAL INC., a Babcock Power Inc.® company, and its sister company Riley Power Inc., offer a complete portfolio of technologies and services to encompass all your air pollution environmental needs. Our companies share more than 90 years of utility boiler engineering experience, along with a full range of environmental technologies, making us a leader in developing, installing and implementing complete Air Quality Control Systems (AQCS) for the power generation industry. Our Selective Catalytic Reduction (SCR) Systems*, Low NOx Burners, Wet Flue Gas Desulfurization (WFGD) Scrubbers, Dry Scrubbers including our Circulating Dry Fluid Bed Scrubbers, and Mercury Removal systems are all available and can be integrated into a cost-effective, highly efficient air pollution control system from one supplier.

Select Catalytic Reduction (SCR)
The Babcock Power SCR incorporates the use of our unique and proprietary Delta Wing® mixing technology which enables Babcock Power Environmental to offer direct ammonia injection without the use of vaporizers. The SCR system requires minimal tuning requirements, delivers ammonia through large open lances and provides for uniform ammonia to NOx distribution. The Delta Wing® mixing technology provides unmatched mixing and distribution of flue gas flow, flue gas components, flue gas temperature, and fly ash and delivers the lowest long term outlet NOx emissions over the entire operating load range with the highest reliability in the industry.

Rely on industry-leading air pollution control systems integrated through the convenience of one supplier.

CONTACT BABCOCK POWER ENVIRONMENTAL INC. TODAY.
Multi Pollutant Control Reactor (MPCR)
The Babcock Power MPCR system is designed to reduce NOx and other emissions including CO and VOCs from flue gas. For boilers, the system is often coupled with Babcock Power's split air heater to eliminate the requirement to reheat the flue gas. The MPCR is especially designed to achieve high NOx removal for biomass and industrial applications.

Regenerative SCR
The Babcock Power RSCR System is designed to reduce NOx and other emissions from flue gas including CO and VOCs and process equipment, targeting tail-end/low temperature applications where the flue gas is relatively cool with low levels of particulates and acid gases. The modularized system is highly thermal efficient (>95% heat recovery) compared to other tail-end SCR technologies and requires a very short outage for a duct tie-in.

HRSG and Simple Cycle SCRs
The Babcock Power HRSG and Simple Cycle SCRs incorporate the use of our knowledge of modeling and mixing technology to distribute flue gas flow and temperature to effectively maintain emissions and optimize drop during cyclic transitions.

Delta Dry Sorbent Injection (DSI)
The Babcock Power Delta DSI system maintains higher removals and reduced reagent consumption compared to traditional DSI systems. The system incorporates the use of our unique and proprietary Delta Wing® mixing technology to maintain sorbent distribution over the entire operating flue gas flow range to remove acid gas constituents including SO₂, SO₃, HCl, and mercury.

Circulating Dry Fluid bed Scrubber (CDS)
The Babcock Power CDS is a cost effective, highly efficient system designed to remove acid gas constituents, including SO₂, SO₃, HCl, HF, mercury, and other trace pollutants from flue gas streams. The system is optimized to minimize pressure drop and reagent consumption while maintaining removal across the entire flue gas operating range.

Wet Flue Gas Desulfurization (WFGD)
The Babcock Power WFGD system maintains high efficiency SO₂ removal while still effectively managing power consumption. The WFGD system is optimized to minimize the WFGD effluent stream while producing marketable gypsum.

Water Management
Babcock Power Environmental has a keen understanding of water chemistry across the entire process from years of experience as an OEM (original equipment manufacturer). Babcock Power Environmental will work with customers to provide technology options for zero liquid discharge. These options will allow a plant to reduce O&M, reduce WFGD effluent discharge and reclaim and/or eliminate pond water. Water optimization includes:

AQCS Upgrades
With dispatch requirements resulting from changing generation portfolios coal fired generating units are facing challenges running their AQCS to meet emissions requirements. Maintaining flue gas and temperature distribution is important to maintain permitted emissions, and the marketability of flyash and byproduct with the minimization of reagent feed and wastewater purge. The keys to addressing these challenges are a comprehensive understanding of the design and operation of the equipment and technology and expertise to apply solutions to resolve these issues. Babcock Power’s experience as an original equipment manufacturer understands the entire process and process impacts across the system and can partner up with owners to find the best solutions to these challenges to maintain emissions and reduce O&M.