Babcock Power Environmental Inc., a Babcock Power Inc.® company, provides fully integrated environmental solutions for utility power plants, waste-to-energy facilities, and large industrial applications worldwide. Babcock Power Environmental Inc. is a market leader in the field of environmental air pollution control technology, including the introduction of Regenerative Selective Catalytic Reduction (RSCR®) systems.

**TECHNOLOGY AND EXPERTISE**

Combining the proven benefits of Regenerative Thermal Oxidizer and Selective Catalytic Reduction technologies, Babcock Power Environmental Inc.’s Regenerative Selective Catalytic Reduction system offers highly-efficient NOx (nitrogen oxides) control — designed especially for tail-end, low temperature applications. This innovative technology is capable of greater than 80% NOx removal.

Since major components are modularized and installed at the tail-end of the existing plant’s gas stream, the system can often be operational within eight months from order placement, with on-site construction and installation lasting only about 60 days. Start-up and commissioning of the RSCR® system can be as little as two to three days, making this an inexpensive, efficient, and easy-to-install pollution control device. Operation, maintenance and field services for the RSCR® product line are also available through Babcock Power Environmental Inc.

**BENEFITS**

- High NOx removal efficiency
- Achieves high heat recovery > 95%
  - Minimizes energy costs
  - Flexible fuel source for burner
- Emissions guarantees
  - NOx removal, NH₃ slip, catalyst life
- High NOx removal efficiency
- Proprietary NH₃ system design
  - Unique injection systems ensure high performance and low energy
  - Aqueous or anhydrous NH₃ designs available
- Self-contained, tail-end unit
  - Includes fans, controls, burners
  - Built-in cleaning capabilities
  - Install/start up with minimum outage time
- Modular, standard design to minimize installation time and cost
- Bypass capabilities included
- Optional CO reduction catalyst
APPLICATIONS
The Babcock Environmental Inc. RSCR® System is designed to reduce NOx and other emissions from boilers and process equipment, targeting tail-end/low temperature applications where the flue gas is relatively cool with low levels of particulates and acid gases.

REGULATORY COMPLIANCE
Local, state and federal agencies continue to evaluate and lower the NOx emission levels allowed by new or existing industrial installations, which the RSCR® can help achieve. Also, adding a RSCR® may assist you in qualifying for a particular state’s Renewable Energy Certificate program or to achieve less than 250 TPY of pollutant emissions.