

Roundhouse Renewable Energy

Regenerative Selective Catalytic Reduction

Advanced Control Technology for Oxides of Nitrogen

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Roundhouse Renewable Energy is a renewable energy power project, generating electricity from regionally available biomass. Located on a Brownfield site that was former railroad maintenance property in the City of Oneonta, Otsego County, the project will include a stoker-fired boiler system with advanced emission controls, including an advanced oxides of nitrogen and carbon monoxide reduction system, high-efficiency electrostatic precipitator, advanced water treatment system with waste water recycling, wood chip (fuel) receiving and storage area.

As applied to Roundhouse, Babcock's RSCR will effectively and efficiently reduce oxides of nitrogen (NOx) a further 80 percent below the low emission level exhausting from the optimized stoker-boiler. Through the application of RSCR technology, resultant NOx emissions will be controlled to levels rivaling combustion turbines fueled with clean burning natural gas!

In addition and as part of its commitment to a clean environment, the Roundhouse RSCR will couple oxidizing catalyst within the unit for further reductions of carbon monoxide and volatile organic compounds.

Using thermal regeneration and a common reagent, aqueous ammonia (typical of household ammonia), the Roundhouse RSCR unit will convert noxious emissions into molecular nitrogen (as found in ambient air), water vapor (steam), and carbon dioxide.

Brochure

Vogt Power International, a long-term manufacturer of boilers and boiler machinery and a company of Babcock Power, Inc., presents regenerative-selective catalytic reduction (RSCR) in the accompanying materials.