Praxair’s oxygen-enhanced system is easily installed in most boilers. Its non-intrusive design allows for quick installation with minimal to no plant downtime. There is no major construction and no significant interruption to your business.

NOx is not your only concern. Your compliance issues are more complex than that, and are growing every year. Praxair’s oxygen-enhanced system can help you get your NOx remediation in line and leave you the space and budget to address whatever regulations come down the road in the future. Since Praxair’s oxygen-enhanced system is a combustion-based technology, it allows for complementary systems to be installed in the future as your needs change.

NOx credits are trading at approximately $3,500 – for now – and SCRs can cost you millions of dollars. A Praxair oxygen-enhanced system can save you 30%–45% of what you’re spending on credits and a fraction of what an SCR will cost your company. While the system reduces NOx emissions, it also helps you generate more power at better rates during profitable peak summer periods – which helps the system pay for itself. The comparatively low cost of Praxair’s oxygen-enhanced system takes care of your NOx issues today, and leaves you with the financial resources to address tomorrow’s needs.

Praxair’s oxygen-enhanced system is an engineered approach to reduce your NOx emissions. The best way to comply with NOx limits is to actually reduce the amount of NOx you produce. The targeted introduction of oxygen into your staged combustion process causes your boiler to not only produce less NOx but also reduces your dependence on costly NOx credits. Also, in the future, you may be asked to reduce other airborne pollutants, and you may not be able to use credits to address these emissions. Praxair’s oxygen-enhanced system gives you NOx reductions today, while keeping areas downstream of the boiler free for multi-pollutant solutions in the future.

Applicable to wall-fired boilers with net generating capacity from 15 MW to 500 MW

Designed for use with existing low-NOx Burners and OFA (overfire air) Systems

Demonstrated NOx emissions of 0.144 lb/MMbtu on a 125 MW commercial, wall fired boiler, firing bituminous coal at 80% nameplate

Achieved NOx emissions of 0.180 lb/MMbtu on a 125 MW commercial, wall fired boiler, firing bituminous coal at 100% nameplate

Praxair’s patent-pending oxygen-enhanced low-NOx technology is a cost-effective and reliable means for decreasing NOx emissions from existing wall-fired boilers utilizing coal as the main fuel. This technology is a combustion-based approach to NOx emission control that has achieved results below the level currently mandated by the State Implementation (SIP) Call NOx legislation at pilot and commercial scales with various types of bituminous coals.

TECHNICAL SPECIFICATIONS

FOR MORE INFORMATION

To contact your local Praxair representative call 1-800-PRAXAIR (1-800-772-9247) or log onto www.praxair.com.

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