

MEDIA RELEASE

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Sulzer develops gas turbine solution for Chinese powerplant to reduce nitrogen oxide emissions by 120 tonnes per year

Sulzer has developed and implemented a modular retrofit solution to help a gas turbine powerplant in Jiangsu Province, China, reduce nitrogen oxide (NOx) emissions and comply with a stringent new emissions standard. By optimizing combustion stability in the gas turbine, the advanced circular solution prevents large capital expenditure and long upgrade lead times. It also improves power generation uptime and reduces operational expenses.

In 2021, Jiangsu Province in China announced its “Stationary Gas Turbine Air Pollutant Emission Standard,” stipulating a NOx emission limit of 30 mg/m³, effective March 2023. To meet this requirement, the powerplant needed to replace its key combustion components or find a retrofit solution quickly. Sulzer’s solution, a combustion automatic tuning adjustment system (CATS), served to optimize combustion stability in the gas turbine by identifying and reacting to operational thresholds, while reducing NOx emissions.

Following some six months of data collection and analysis, Sulzer designed, developed, tested and implemented its modular CATS system that seamlessly integrated with the facility’s existing control system installed on the gas turbine. The CATS solution ensures NOx emissions remain under the legislative limit, with the added benefits of a short turnaround time and reduced operational expenditures of CHF 400’000 per year compared to selective catalytic reduction.

Tim Schulten, Sulzer’s Service division president, explains: “As experts in power generation applications, we appreciate the need to avoid long lead times and associated downtime as our customers strive to meet challenging emission requirements. While we focus on enabling more clean and renewable energy, our solutions are also of significant ongoing value in terms of efficiency gains, longevity and reduced emissions.”

Sulzer is a global leader in fluid engineering and chemical processing applications. We specialize in energy-efficient pumping, agitation, mixing, separation, purification, crystallization and polymerization technologies for fluids of all types. Our solutions enable carbon emission reductions, development of polymers from biological sources, recycling of plastic waste and textiles, and efficient power storage. Our customers benefit from our commitment to innovation, performance and quality through our responsive network of 180 world-class manufacturing facilities and service centers across the globe. Sulzer has been headquartered in Winterthur, Switzerland, since 1834. In 2022, our 12’900 employees delivered revenues of CHF 3.2 billion. Our shares are traded on the SIX Swiss Exchange (SIX: SUN). www.sulzer.com

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