

Solar® Turbines

A Caterpillar Company

Powering the Future Through Sustainable, Innovative Energy Solutions

SOLONOX DRY LOW EMISSIONS TECHNOLOGY

Solar Turbines is a leader in pollution-prevention technology. Since the introduction of SoLoNOx™ in 1992, our dry low emissions technology advancements have prevented the production of more than 5.8 MM tons of NOx emissions. This represents a reduction of 75-90% from conventional combustion baselines for natural gas fuel.

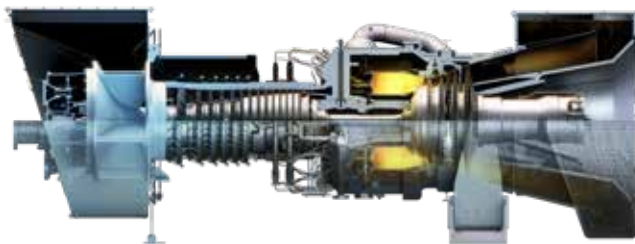
Solar has unrivaled experience within the industry with more than 3500 SoLoNOx gas turbines with over 312 million operating hours located around the world.

Fuel options include natural gas, ultra low sulfur diesel (ULSD), associated gases, LPG and kerosene.

Low NOx Emissions Warranty: Pipeline natural gas emissions available at 9, 15, 25 or 38 ppm NOx @15% O2 on select models. ULSD emissions levels range from 58 to 96 ppm NOx @15% O2 on select models.

Wide Low NOx Emissions Operating Range: Single shaft 50-100% load, two shaft 40-100% load down to low ambient temperatures.

Available warranty emissions levels, operating range, and ambient temperature range vary by product and rating. Please contact Solar for more information.



Dry Low Emissions 101

DLE (dry low emissions) or lean-premix combustion reduces the conversion of atmospheric nitrogen to NOx by reducing the combustor's flame temperature. Since NOx formation rates are strongly dependent on flame temperature, lowering this temperature is an effective strategy for reducing NOx emissions. Lean combustion is enhanced by premixing the fuel and combustor airflows upstream of the combustory primary zone. DLE eliminates the need for water or steam injection or exhaust cleanup, which benefits the environment at a lower cost.

Additional Information

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