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GE 's gas turbines have a long history of burning hydrogen blended with natural gas, which has a long list of benefits, in a wide range of concentrations. GE has installed more than 70 gas turbines in the U.S., Asia and Europe that are currently or have significant past experience burning fuels that contain hydrogen to generate electricity.

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GE builds its heavy-duty and aeroderivative gas turbines to be efficient, versatile and reliable with individual output ranging from 34 MW to 571 MW. They are proven performers in simple and combined-cycle operation for pure power generation, cogeneration, mechanical drive, and waste-to-power.

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The plant will feature three of GE's world-record setting HA gas turbines and deliver efficiency greater than 62 percent. 7HA technology is flexible and will complement Brazil's intermittent renewable energy resources by delivering full power to the grid in less than 30 minutes.

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At GE's Gas Power, we're pushing the boundaries of what's possible within gas power generation to help our customers achieve the right balance between power plant performance and environmental sustainability. We have the broad experience and advanced equipment needed to reliably convert the full spectrum of liquid and gas fuels to energy, with natural gas-fueled combined cycle power plants offering one of the cleanest and most efficient methods of producing electricity from fossil fuels.

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What is a Gas Turbine? The gas turbine is the engine at the heart of the power plant that produces electric current. A gas turbine is a combustion engine that can convert natural gas or other liquid fuels to mechanical energy. This energy then drives a generator that produces electrical energy. It is electrical energy that moves along power lines to homes and businesses.

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