



## 4.2 MWe COMBINED HEAT AND POWER PLANT CERAMIC INDUSTRY

OWNER  
**Pamesa Do Brasil**

LOCATION  
**Suape - Recife, Brazil**

PRODUCT  
**Centaur 50 Gas Turbine**

CUSTOMER VALUE  
**Efficiency**

Pamesa Do Brasil is owned by Pamesa Espana, together with private Brazilian capital and is dedicated to the production, distribution and sale of ceramic flooring and glazed porcelain tiles. Pamesa's experience, high quality of products and constant technological innovation make it recognized as one of the most modern companies in Brazil. Based on the positive experience of several ceramic factories in Spain, Pamesa Do Brasil decided to install a combined heat and power (CHP) plant associated with its clay atomization process. The CHP plant is an efficient way to use natural gas to complement other energy sources and produces a clear reduction in energy costs.

**Solar Turbines**  
A Caterpillar Company

## 4.2 MWe GAS TURBINE COMBINED HEAT AND POWER PLANT



### PLANT DATA

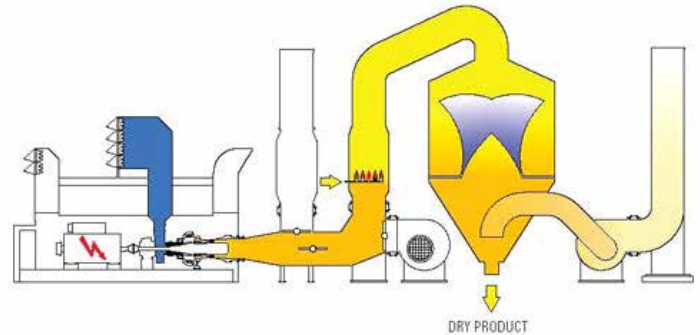
One 4.2 MWe Centaur 50 Gas Turbine

Ducts Connection to Atomizer, Including Dampers and By-pass Stack

Fuel Gas Compressor and Compressed Air Installation

Medium and Low Voltage Electrical System

Fuel: Natural Gas



### OUR PRODUCTS & SERVICES

Gas Turbine Package and Auxiliaries

Design

Plant Integration

Installation and Commissioning

Maintenance

**COST EFFICIENT SOLUTION**

**HIGHLY EFFICIENT**

**LOW EMISSIONS**

**HIGH RELIABILITY AND  
AVAILABILITY**

The heat from the exhaust gases of the Centaur® 50 gas turbine is used to dry the slip in the atomizer and, at the same time, the generated electricity is either used in the factory or sold to the grid belonging to the local electricity utility.

Now fully integrated with Solar Turbines, Turbomach provided the complete integration of the gas turbine package into the existing plant, including the interconnection of the turbine exhaust with the existing atomizer. Furthermore, the plant has been designed to be connected to another atomizer that will be installed in the future.

Turbomach was involved in the design and construction of the natural gas distribution network for the gas turbine and the supply of a natural gas compressor to match the gas supply pressure needed by the gas turbine. The compressed air installation was also part of the scope of supply.

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