



COMBINED HEAT AND POWER - LOW BTU GAS PULP AND PAPER INDUSTRY ARCTIC PAPER KOSTRZYN S.A.

OWNER

Arctic Paper Kostrzyn S.A.

LOCATION

Kostrzyn, Poland

GAS TURBINES

Two Mars 100 Gas Turbines

CUSTOMER VALUE

50% Reduction of CO2 Footprint

Arctic Paper S.A. produces and markets high-quality graphic paper. When the company decided to switch from coal to a gas similar to low Btu coal mine gas, they had some important requirements. The power plant reliability would have to increase and emissions would have to decrease to support Arctic Paper's corporate commitment to environmental protection. Solar Turbines answered the challenge, integrating state-of-the-art Mars[®] 100 gas turbines into the combined cycle application. The project is able to provide the pulp and paper factory's electrical power needs, steam for their process, district heating, and is completely independent of the grid in terms of electrical energy.

Solar[®] Turbines

A Caterpillar Company

COMBINED HEAT AND POWER PLANT - LOW BTU GAS



PLANT DATA

Two Mars 100 Gas Turbines (22 MWe)

Two Heat Recovery Steam Generators with Post-firing (18MWth)

Steam Turbine Generators

40MWe - 169 MWth Heat Supply

Fuel: Low Btu Gas (CH₄ 39%, N₂ 50%+)



OUR PRODUCTS & SERVICES

Gas Turbine Packages and Auxiliaries

Design

Construction

Commissioning and Installation

Maintenance

**INCREASED FACILITY
PRODUCTIVITY**

DECREASED EMISSIONS

COST EFFICIENT SOLUTION

The customer not only relies on the availability of highly efficient power at all times but can also sell back excess electrical power to the local grid. Furthermore, the efficiency of the combined heat and power generation plant and the low emissions of the Mars 100 ensured the installation's full compliance with the European Union's directive on combined heat and power and industrial emissions regulations. Solar Turbines has extensive experience in plant engineering for new and replacement installations and offers extended support services to allow customers to extend the life of their equipment while reducing their environmental footprint, increasing overall plant efficiency, and improving fuel utilization.

To find out how a gas turbine solution from Solar can greatly improve the profitability of your plant operations, give us a call.

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