



40 MWe COGENERATION PLANT PULP AND PAPER INDUSTRY

OWNER

Arctic Paper

LOCATION

Poland

GAS TURBINES

Two *Mars* 100 Gas Turbines

CUSTOMER VALUE

50% Reduction of CO₂ Footprint

When our customer decided to switch from coal fuel to locally available gas, they highlighted three main requirements: increase power plant reliability, decrease emissions, and support their commitment to environmental protection. For this, we integrated state-of-the-art gas turbines into combined cycle mode. The project is able to provide the pulp and paper factory's electrical power needs, steam for process, and district heating.

Turbomach
A Caterpillar Company

40 MWe GAS TURBINE COGENERATION PLANT



PLANT DATA

Two *Mars*® 100 Gas Turbines (22 MWe)

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

Two Steam Turbine Generators

40 MWe - 169 MWth Heat Supply

Fuel: Local Natural Gas With Low Calorific Value

OUR PRODUCT & SERVICES

Gas Turbine Packages and Auxiliaries

Design

Construction

Installation and Commissioning

Maintenance

**INCREASED PRODUCTIVITY
DECREASED EMISSIONS
COST-EFFICIENT SOLUTION**

The new plant is completely independent in terms of electrical energy. 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 cogeneration plant and the low emissions of the *Mars* 100 ensured the installation's full compliance with the European Union's straight directive on Combined Heat and Power and industrial emissions regulations.

Turbomach is a fully integrated part of Solar Turbines, a subsidiary of Caterpillar Inc., and a leading manufacturer of mid-range industrial gas turbines with over 60 years of experience.

**FOR FURTHER INFORMATION,
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