



15 MWe COGENERATION PLANT CHEMICAL INDUSTRY

OWNER

Total Petrochemicals Feluy

LOCATION

Belgium

GAS TURBINES

***Titan* 130 Gas Turbine**

CUSTOMER VALUE

Security of Steam Supply

Total Petrochemicals Feluy's commitment to energy efficiency triggered their requirement for a cogeneration solution that would support their continuously operating polymer factory in Feluy, Belgium, the largest in Europe. The project was driven by the requirement for high overall efficiency, high availability, and low emissions levels. The fully integrated cogeneration plant ensures a wide steam production range, making use of refinery gas, and is powered by the *Titan*TM 130 gas turbine package.

Turbomach
A Caterpillar Company

15 MWe GAS TURBINE COGENERATION PLANT



PLANT DATA

Titan 130 Gas Turbine (15 MWe)

*SoLoNOx*TM Combustion

Steam Production Range: 25 to 60 Tons Per Hour

Post-firing Fuel: Refinery Gas, Natural Gas, Propane

OUR PRODUCT & SERVICES

Gas Turbine Package and Auxiliaries

Heat Recovery Steam Generator and Plant Auxiliaries

Installation and Commissioning

Maintenance

**HIGH AVAILABILITY
LOW EMISSIONS
HIGH EFFICIENCY**

Turbomach's solution is based on the highly efficient *Titan* 130 gas turbine operating in conjunction with a customized water tube heat recovery steam generator. The boiler is equipped with a post-firing system that is able to burn various gaseous fuels with minimum impact on NO_x and CO emissions. The cogeneration system boasts an overall efficiency of over 80%, while complying with the European Union's "Best Available Techniques" guidelines for emissions to the atmosphere. Turbomach, thanks to its plant engineering capabilities, and of the *Titan* 130 gas turbines performance and operating experience, proved to be the right solution to help Total meet its environmental goals.

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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