



COMBINED HEAT AND POWER CHEMICAL INDUSTRY TOTAL PETROCHEMICALS FELUY

OWNER

Total Petrochemicals Feluy

LOCATION

Belgium

PRODUCT

Titan™ 130 (15 MWe) Gas Turbine

CUSTOMER VALUE

Security of Steam Supply

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

Solar® Turbines

A Caterpillar Company

Combined Heat and Power - Chemical Industry



PLANT DATA

One Titan 130 (15 MWe) Gas Turbine

SoLoNOx™ Combustion

Steam Production Range: 25 to 60 Tons/Hour

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

OUR PRODUCTS & SERVICES

Gas Turbine Package and Auxiliary Supply

Heat Recovery Steam Generator and Plant Auxiliaries

Installation and Commissioning

Maintenance

HIGH AVAILABILITY

LOW EMISSIONS

HIGH EFFICIENCY

Turbomach's solution was 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 NOx and CO emissions. The combined heat and power system boasts an overall efficiency of more than 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 the Titan 130 gas turbine's 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 more than 60 years of experience in the industry.

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