



# 24.5 MWe COGENERATION PLANT PULP AND PAPER INDUSTRY

#### OWNER

**AIE IDAE Sant Joan**

#### LOCATION

**Sant Joan Les Fonts (Girona), Spain**

#### GAS TURBINE

***Titan* 250 Gas Turbine**

#### CUSTOMER VALUE

**Efficiency of Cogeneration Power Plant**

The Spanish Institute for Energy Diversification and Saving (IDAE) and the Lecta Group conceptualized a new cogeneration power plant for a paper mill. The objective was clear. It had to produce a specific range of power and flexible steam production in a cost-effective manner. The *Titan*<sup>™</sup> 250 gas turbine, which delivers best-in-class - efficiency, accomplishes demand for electricity and steam, savings on fuel and reduces emissions with high availability and reliability. The *Titan* 250 product is equipped with *InSight System*<sup>™</sup> to utilize remote monitoring technology, an equipment health management component, as the foundational approach to maximizing availability and reliability in operations and maintenance.

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## 24.5 MWe GAS TURBINE COMBINED CYCLE POWER PLANT



### PLANT DATA

*Titan* 250 Gas Turbine (22 MWe) with *SoLoNOx*<sup>TM</sup> Combustion System

Steam Turbine Generator (2.5 MWe)

Heat Recovery Steam Generator with Post-Firing

Complete Inlet Chilling System

Fuel: Natural Gas

### OUR PRODUCTS & SERVICES

Gas Turbine Package and Auxiliaries

Customized Air Filtration and Cooling System

Plant Integration

Full Installation and Commissioning

Long-Term Service Agreement

**COST EFFICIENT SOLUTION  
GRID INDEPENDENT  
HIGH RELIABILITY AND  
AVAILABILITY  
REDUCED EMISSIONS**

**FOR FURTHER INFORMATION,  
PLEASE VISIT  
[WWW.TURBOMACH.COM](http://WWW.TURBOMACH.COM)  
OR CONTACT US AT:**

**TURBOMACH SA**  
Via Campagna 15  
6595 Riazzino - Switzerland  
Tel: +41 91 851 15 11  
Fax: +41 91 851 15 55  
[contact@turbomach.com](mailto:contact@turbomach.com)

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This plant has a production capacity of approximately 145,000 tonnes per year of coated paper and is now highly dependent on the new combined cycle power plant. Additionally, an inlet-air chiller and a cooling coil are installed in order to boost the gas turbine's performance at high ambient temperatures. The design methodology of the *Titan* 250 gas turbine ensures that the customer receives robust equipment ready for long, reliable service across the entire life cycle of the project. This project has achieved excellent economic and environmental benefits.

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

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