



COMBINED HEAT AND POWER PULP AND PAPER INDUSTRY AIE IDAE Sant Joan

OWNER
AIE IDAE Sant Joan

LOCATION
Sant Joan Les Fonts (Girona), Spain

PRODUCT
Titan 250 Gas Turbine

CUSTOMER VALUE
Efficiency of Combined Heat and Power Plant

The Spanish Institute for Energy Diversification and Saving (IDAE) and the Lecta Group conceptualized a new combined heat and 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™ 250 gas turbine, which delivers best-in-class efficiency, accomplishes the demand for electricity and steam, savings on fuel, and reduces emissions with high availability and reliability. The Titan 250 is equipped with InSight System™ to utilize remote monitoring technology, an equipment health management component, as the foundational approach to maximizing availability and reliability in operations and maintenance.

Solar® Turbines

A Caterpillar Company

Combined Heat and Power - Pulp and Paper Industry



PLANT DATA

Titan 250 Gas Turbine (22 MWe) with SoLoNOx™
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

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.

Solar Turbines Incorporated

Tel: +1 619 544 5352

Mail: infocorp@solarturbines.com Web: www.solarturbines.com

Caterpillar is a registered trademark of Caterpillar Inc. Solar, Titan and Insight System are trademarks of Solar Turbines Incorporated.

©2017 Solar Turbines Incorporated. Specifications subject to change without notice. All rights reserved.

CSCHP-AIE/0717/EO

Solar® Turbines

A Caterpillar Company