



## **22 MWe COMBINED HEAT AND POWER DIRECT DRYING AND COGENERATION CMPC TISSUE, S.A.**

OWNER  
**CMPC Tissue, S.A.**

LOCATION  
**Talagante, Chile**

DIRECT DRYING DESIGN AND SUPPLY  
**Valmet**

PRODUCT  
**Titan 250 (22 MWe) Gas Turbine**

CUSTOMER VALUE  
**Energy Cost Savings, Increase in Energy Efficiency**

CMPC is one of the largest and oldest paper companies in Latin America and is committed to the sustainable use of energy. Their plant in Talagante, Chile, on the outskirts of Santiago, produces high quality tissue that is made with both pulp and recycled paper.

This direct drying and cogeneration plant uses natural gas with the Titan™ 250 gas turbine package to produce electricity, hot air for direct drying in the Yankee Hood, and steam produced in an integrated heat recovery steam generator. The Titan 250 package is the first to use an 80db low-noise design to ensure less noise pollution in the quiet countryside where the plant is located. The plant is able to act as a microgrid in the event of an outage or issues with external networks. The Titan 250 can easily adapt to a range of energy demands, with the average being 17-22 MWe.

**Solar Turbines**  
A Caterpillar Company

## 22 MWe DIRECT DRYING AND COGENERATION – CMPC Tissue, S.A.



### PLANT DATA

22 MWe Titan 250 Gas Turbine

Yankee Hood Direct Air Drying System

Heat Recovery Steam Generator

Fuel: Natural Gas

### OUR PRODUCTS & SERVICES

Gas Turbine Package and Auxiliary Supply

Startup and Commissioning

Operation and Maintenance Training

Extended Service Agreement

**15-20% SAVINGS ON ENERGY COSTS  
COMPARED WITH NON-INTEGRATED  
SYSTEMS**

**SIGNIFICANT EMISSIONS REDUCTION**

**USE OF BIOMASS**

**SUSTAINABILITY: FOREST RESTORATION**

**ENHANCED RELIABILITY AND AVAILABILITY**

Since the installation of the Titan 250 at the Talagante plant, it has played an integral part of meeting CMPC's goal of increasing their energy efficiency by increasing energy generation from biomass. As part of the commitments acquired with FSC Certification, CMPC will recover over 21,000 acres of native Chilean forest within a period of 15 years with technical support from forestry specialists and universities.

Solar's Customer Services group provided a comprehensive service agreement for the turbomachinery to ensure high reliability, availability, and optimum performance. The Extended Services Agreement (ESA) uses InSight Platform™ to determine required maintenance activities based on equipment condition. The agreement also provides all package replacement parts, emergency callout support, generator services, and gas turbine overhaul. The ESA coverage results in more uptime, greater productivity, and optimized life cycle.

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