

TERSA, WASTE TO ENERGY PLANT, SPAIN

INSTALLATION OF TWO OVERHEAD CRANES

TERSA, waste to energy plant, using municipal waste from the Metropolitan Area of Barcelona, Sant Adrià del Besòs, Barcelona, Spain. Its social purpose is the management, treatment and selection of municipal waste in the Barcelona metropolitan area, providing services to more than three million residents in 36 municipalities. One of the main activities of the company is the exploitation of the energy recovery plant (PVE) of Sant Adrià de Besòs (Barcelona), with the following objectives:

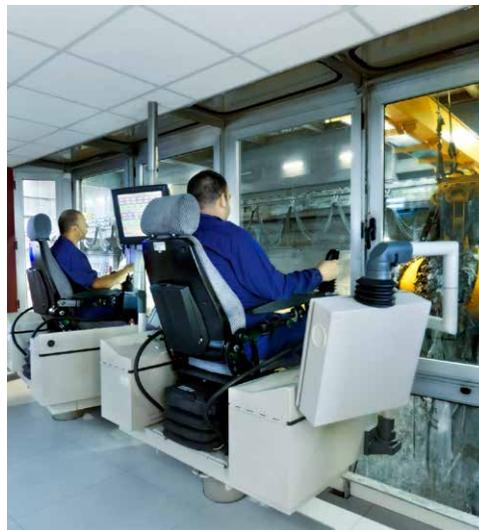
- Treatment of municipal waste
- Generation and supply of electrical power to the network
- Steam supply to the heating and/or cooling distribution network in the neighborhoods of Barcelona

THE CHALLENGE

In 2006, the works for the technological renovation of the facilities of the PVE started in order to increase production, to treat fuel with a higher calorific value and to increase the energy efficiency of the plant. By taking advantage of the investment plan for technological renewal, it was considered the ideal time to renew the cranes, as the existing ones were 35 years old.

There were some basic requirements for this investment:

- Three operation modes: manual, semi-automatic and automatic
- Continuous weighing of the waste, an essential feature for controlling the treated waste
- Waste is as homogeneous as possible
- Better working conditions and ergonomics for crane operators
- Reliable operation of the cranes in three shifts, 350 days a year.





INDUSTRIAL
CRANES



NUCLEAR
CRANES



PORT
CRANES



HEAVY-DUTY
LIFT TRUCKS



SERVICE



MACHINE
TOOL
SERVICE

THE SOLUTION

According to the requirements of the works performed in the pit of the waste treatment plant, it was considered that the best option was to install two overhead cranes equipped with the latest technology. Konecranes' cranes offer a wide variety of functions ideally suited to the energy recovery industry. The plan involved installing high-tech equipment in the control room. As a result, the new room has ergonomic seats, touch screens, keypads and displays. From this location both cranes can be controlled safely.

We recommended Level 3 of the Preventive Service, which includes 24/7 service, weekly greasing, review of the cranes every two months, and monthly and quarterly reviews of the hydraulic grabs. Our Preventive Maintenance Service minimizes unscheduled downtime and offers 24/7 technical support.

THE RESULTS

David Garcia, Plant Engineer at TERSA, says that Konecranes won the bid and obtained the highest overall score in the technical and economic assessments.

"All the employees who participated in this project treated us in a very professional, careful and dedicated way. We are very happy," says Garcia.

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