

Thermoelectric Plant "Las Flores"



BOSCH

Invented for life

Industry:

Industrial

End User:

Thermoelectric Plant "Las Flores"

The thermoelectric plant "Las Flores" in Barranquilla provides electricity for new industrial developments. It generates 400 megawatt using the most modern combined-cycle technology, which guarantees an economic and continuous electricity supply from clean production processes that protect and respect the environment. The thermoelectric plant marked the dawn of a new era in public services in Barranquilla, one typified by efficiency, quality and meticulousness in administration and management conditions.

Business Objective:

The main objective was to solve the security problems which resulted in an incomplete and malfunctioning surveillance system. It did not cover all critical areas and the information storage was not secure. In addition, a previous risk analysis showed the importance to install a reliable monitoring system that guarantees security on the entire complex.

Solution:

When designing the project, aspects related to the topography, the atmospheric conditions, the weather and the interference by electromagnetic fields were taken into account.

It was considered as being necessary to use a dome IP camera which generates both a perimeter cover and the supervision of the production process. An access control system was implemented in order to restrict the entrance to critical areas, supported by video verification and an intrusion system for protecting the perimeter and the strategic areas inside the plant.

Additionally, a management system named Vidos was installed to achieve the localization in the alarm plans by intelligent video analysis and to develop a proactive surveillance through video with matrix visualization which monitors with punctual visualization of the events.

Finally, the installed BIS system (Building Integration System) allows the video verification of the persons that need to enter restricted areas, the complete monitoring of key sites in the production and the automatic positioning of mobile cameras like domes in case of a perimeter alarm.



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Result:

The project began in January 2009 and was finished by March of the same year. The initiative came from Colinversiones S.A., the company that owns the thermoelectric plant and which invested USD 400.000 in the project. According to the client, Bosch products were selected for their quality, integration, automation, warranty and support. Now, it is possible to ensure processes, register information, control and generate measurements and statistics. In addition, the visibility of all critical areas such as the operation sector and the construction area of the new generator can be ensured.

Installed by:

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