Axis at the service of the Acerra incinerator.

Axis cameras enable surveillance of important waste disposal site in Naples province.

Organization:
Partenope Ambiente (A2A)

Location:
Naples, Italy

Industry segment:
Critical infrastructure

Application:
Safety and security, perimeter monitoring, license plate recognition

Axis partners:
I.R.T.E.T. srl, TechnoAware

Mission

The incinerator at Acerra is a waste-to-energy plant built in 2009 in the Province of Naples, Italy, with the aim of solving the so-called "garbage crisis" in the Campania area, which has received widespread attention from the media, partly due to the presence of the Italian army, who were brought in to monitor the site. In order to bring an end to military control of this area, Partenope Ambiente chose to install a video surveillance system.

Solution

The 34 Axis network cameras were installed at key points, such as pedestrian walkways and vehicle routes, allowing for strategic, timely monitoring of activity and ensuring high image quality without affecting bandwidth capacity. The management software allows delivery of objects and waste to the storage site to be monitored, along with the license plates of the vehicles moving within the vicinity of the incinerator.

Result

The solution adopted has allowed the site to establish an extremely reliable video surveillance system, with equipment which is advanced both in terms of quality and technology, and which is able to meet the security standards required by the company. Efficient monitoring of the external perimeter of the site and excellent hardware and software integration combine to ensure that tampering, unauthorized access and dangerous situations near the site are discouraged and avoided.

AXIS
COMMUNICATIONS

"The depth of knowledge and expertise which comes with Axis cameras left us in no doubt as to the most appropriate solution for the plant."

Teresa Presutto, Program Manager at I.R.T.E.T. Srl.

Axis cameras guarantee security

The incinerator at Acerra uses waste-disposal processes to create electrical energy, and made the headlines in 2009 due to protests and demonstrations against its construction. The delicacy of the situation led to the direct intervention of the Italian military, with a view to safeguarding security in the area surrounding the plant.

Installing a video surveillance system made it possible to put an end to military supervision, replacing human eyes with surveillance cameras for monitoring that is not only more efficient, but which also serves to allevi-ate media attention. Axis cameras fully respond to the needs of Partenope Ambiente, monitoring the outer perimeter of the incinerator and allowing the control of pedestrian and vehicular access through video analysis.

The system's strengths lie in its seamless hardware and software integration, with simplified Power over Ethernet installation, eliminating the need for power cables. The Vtrack video analysis software by TechnoAware uses dif-ferent plug-ins to facilitate the accurate and reliable detection of suspicious movements or attempted tres-pass into the area, while also pinpointing vehicle license plates and recording all suspicious movements in perim-eter and waste storage areas.

The video surveillance system features a total of 34 network cameras, with 28 fixed and 6 pan-tilt-zoom (or PTZ) cameras. The first of these are AXIS Q1755-E Net-work Cameras in HDTV 1080i or 720p, suitable for day and night surveillance and ideal for the protection of areas that require high-quality identification.

The choice of this model was dictated by quality require-ments with regard to identification, color reproduction and high transmission speed. It also represents an ideal solution for bandwidth optimization, thanks to the H.264 compression standard which does not affect video qual-ity. These models also offer advanced motion detection and audio, tampering alarms and the new Gatekeeper functionality, a particularly useful feature which auto-matically enlarges the display in case of motion detec-tion, returning to normal after a default period of time.

The other six cameras installed are AXIS Q6032-E Net-work Dome Cameras, specially designed for surveillance applications where high speed and precision PTZ capa-bilities are essential for the acquisition of detailed images. These waterproof, anti-vandalism cameras have been installed at strategic points throughout the site. They boast a wide-angle 35x zoom, and a functionality which enables the cameras to be rotated and tilted to 20° above the horizon, which is especially useful for monitoring of uneven ground. The model also provides full day and night functionality, which ensures high-quality video in all lighting conditions.

"We are extremely satisfied with the result. Not only can we track any suspicious activ-ity, but we can also identify individuals and objects with precision, in order to guarantee total site security," commented Francesco Capone, Staff Manager at Partenope Ambi-ente S.p.A.