



KONICA MINOLTA



# **WASTE MANAGEMENT COMPANY**

**QUALITY IMAGES, RENEWABLE ENERGY  
AND COMPLIANT RECYCLING**

Giving Shape to Ideas



## EXECUTIVE SUMMARY

A European waste management company has upgraded its surveillance system from analogue to IP, with the help of Konica Minolta Video Solution Services (VSS). The new cameras support the ability to store images, captured in harsh environments, as well as provide access control and documenting its compliance with recycling requirements.

## CUSTOMER PROFILE

A waste management company that operates one of Europe's most modern and efficient incineration plants. Its primary activity is the processing and incineration of waste in an environmentally friendly manner that minimises the volume of waste and utilises the energy contained in the waste.

## CHALLENGES

To have a better opportunity to document the correct processing of the 250 loads of waste that pass through the system every day. Several years ago, the company decided to monitor large parts of the incineration process and its has been using analogue surveillance at its waste disposal site and the incineration plant. A desire to be able to store surveillance images of the incineration plant led the company to consider investing in a new IP-based surveillance system.

What is more, its existing outdoor cameras, particularly those on the waste disposal site, leaked or began to mist up in the damp environment. One of the challenges of the installation of a new surveillance system, therefore, was to find a type of camera that would be able to survive the tough environment of both the waste disposal site and the energy plant.



## SOLUTION

The organisation needed to find a surveillance camera that would be able to work perfectly in the hot, damp, dusty and vibrating conditions of the energy plant, as well as in the tough environment of its waste disposal plant.

During deliberations with its IT supplier regarding how to resolve the storage problem, it was recognised that Konica Minolta's Video Solutions Services (VSS) closely matched its needs and the requirements. Furthermore, the cameras would hard-wearing and suited to the harsh environment that they would have to work in at the energy plant.

The cameras are used for a variety of purposes, with a large proportion monitoring the plant's operating processes. This enables employees to sit in the control room and have an overview of what is happening at all the different areas of the plant. There are another two cameras set up as access control for the two sites, so that it is possible to monitor any irregularities, such as non-compliance with workplace regulations.

Cameras have been installed to monitor a section of the waste that is delivered to the plant. This enables special waste that is delivered to be checked and its handling to be documented. Particular attention is paid to waste that could damage the incineration plant, such as long beams, hazardous waste such as batteries and chemical waste or recyclable waste such as metal, paper and glass.

The municipality in which the plant is located wanted to be able to document what kind of waste was delivered to the waste incinerator and with the new solution they are now better able to document

whether recycling requirements are complied with, for example. Its weigh station is visited by consultants from the municipality and they use the system to collect data and documentation to use in their preventive work.

The surveillance of the incineration plant also means that the police and customs now only need to send one person, who can enter the control room and follow the waste throughout the entire process and take away documentation that the waste has gone into the furnace.

In the new solution, the company chose to keep some of the cameras that it already had, as it was possible to convert them to work in conjunction with the new IP surveillance solution, which is controlled using Milestone software. It can manage the combination of different camera types and the new Konica Minolta VSS cameras were easy to incorporate in the existing network.

The company's own electricians installed the cameras. The Environmental Manager commented, "It was little more than screwing them in and giving them a power supply and then they were up and running. It was very simple and not technically complicated, unlike my experience of other solutions."

## BENEFITS, RESULTS, ROI, FUTURE

The company had not had its new solution long before it realised that the right choice had been made in switching from analogue to digital surveillance, as the Environmental Manager adds, "We can see the difference in many ways in our everyday operations, but we are particularly pleased with how easy it is to connect new units to our surveillance system now. Before we had to convert signals to optical fibre, send them and then convert them back to analogue signals, which meant installing new wires all the time. But now everything is really easy as it's all on the network. At the same time, we have also found that the improved image quality gives us a much better overview, particularly when we use the built-in digital zoom function."

The range of new possibilities will also make it easier for the company to extend its surveillance solution in the future, as the site expands and new possible uses are discovered.





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## LET'S TALK

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