Security Challenges at Power Stations

Many electrical substations are only protected by perimeter fences which are easily breached. Substations represent an attractive target for professional thieves, who steal copper from earthing cables for resale. Copper theft can result in power outages, which is costly for utilities and causes customers a great deal of inconvenience. Beyond the inconvenience and costs caused by the theft of earthing cables, it can cause a great deal of damage — fire or explosions, as well as injury or death — since they carry extremely high voltages. Because the substations are often located in remote areas, remote monitoring solutions are required to enable security teams to pinpoint security threats and deal with them in a timely manner.

Vumii has extensive experience in protecting power stations in the European Union, providing round-the-clock site monitoring enabling the security team to supervise all the unmanned sites from a central command center. The team receives alerts of potential threats, enabling them to investigate and call in local law enforcement if necessary.
Selecting Thermal Cameras

Proven all-weather, round-the-clock multi-sensor thermal camera systems are able to detect and identify possible threats at the unmanned sites. The systems are ideal for detection and assessment of security threats up to 10km and fire detection up to 6km. With these powerful cameras located at the perimeter, movement at one or multiple sites can be monitored from a central command center.

The Vumii Accuracii dual-sensor thermal camera systems are used to observe and monitor sensitive sites, providing full perimeter security 24/7, irrespective of prevailing weather conditions. Vumii offers round-the-clock protection without the need for additional lighting.

Accuracii cameras offer a wide range of lenses and can be configured with IP video according to customer requirements. The Accuracii is ruggedized to withstand the harshest weather and environmental conditions, including rain, direct sunlight, high humidity and dust.

The Vumii Accuracii line of products offer high quality combined with unique image processing and enhanced contrast, making the cameras the perfect partner for analytics software. All Accuracii cameras are designed for easy integration with Video Management Systems (VMS), enabling seamless communication between the cameras and the VMS system monitoring, analyzing and recording activity at the sites.

Summary

Power stations located in remote areas present unique challenges for security teams. Vumii thermal security cameras, coupled with video management software, enable security teams to detect, recognize and identify possible threats.