

## Waste-to-Energy Plant in UAE chooses AVANTGARDE-IR to secure its 2km+ perimeter

Client: DWMC | Location: Dubai, UAE | Perimeter length: ca. 2km

### SITE INFORMATION

Set to convert 1.9 Million tonnes a year of Municipal residual solid waste into sustainable energy, the Dubai Waste Management Centre is being billed as the world's largest Energy from Waste facility to be constructed to date.

Operating at the Warsan site in Dubai, the project will convert 5,666 tonnes of residual solid waste every day into 200 MW of electricity feeding directly into the Dubai Electricity and Water Authority power grid system. The sustainable energy produced will be capable of providing power to 135,000 homes, which is roughly 2% of the annual electricity consumption in Dubai.

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### CHALLENGE AND SOLUTION

The main challenge was to provide an internal layer, adjacent to the perimeter fence, of PIDS solution able to grant accurate detection all along the 2km+ of perimeter in a sandy and very hot environment.

An additional very important prerogative was to select a "linear" technology to fit the small corridor available from the fence to spaces necessary for the plant daily activities possibly IP based to take benefits of the IP backbone designed for the VSS integrated solution.

The choice could only fall on AVANTGARDE-IR, Sicurit Infrared barrier certified Grade-4 (Environmental Class IV) that thanks to its unique bi-directional IR technology not only perfectly meets the severe site and environmental requirements, but also grants complete immunity to direct sunlight dazzle and notifies, in case of drastic sand storms, possible critical reduction of signal efficiency that, in conventional applications, would result instead in just an IR disqualification mode.

### ADDITIONAL PROJECT INFORMATION

Number of set (zones) deployed: **22**

Average zone length: **100m**

Control and supervision: **via Sicurit HyperPower™ SMS**

Third Party integration: **Dahua**



*NB: more detailed information may be requested with the prior authorization of the end user*