Site access and perimeter security

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"We now have a robust and reliable system. We are very pleased with the outcome of this project."

Muralinath Gudimella, ESC Gulf Consultant and Lead Engineer

Unauthorised access incidents reduced to zero

Oman Electricity Transmission Company, Oman

The Oman Electricity Transmission Company (OETC) owns and operates the main electricity transmission network, transferring electricity from generating stations to distribution load centres in all governorates of the Sultanate of Oman. With 90 grid stations in remote locations, identifying and responding to unauthorised intrusions was challenging. Members of the public were entering sites to have picnics, inadvertently risking injury or death. After a fatality when someone interfered with an electricity transformer, it was clear OETC required a robust perimeter security system to deter intruders, reduce risk, and protect the public from harm.

Gallagher's monitored pulse fence was chosen as the solution. The system deters perimeter attacks by delivering a short but safe shock to anyone who touches the fence. Monitored wires detect unauthorized access and trigger instant alerts. Gallagher Z20 Disturbance Sensors heighten perimeter security by ensuring continuous monitoring and vibration detection. The integration of Gallagher technology with CCTV cameras, lighting, and a remote monitoring system, further ensures a safe, secure environment.

Across the 43 sites where installation has been completed, the number of unauthorised entry incidents has reduced to zero. The system has also resulted in significant cost savings and business efficiencies for OETC. "We had up to six guards on every grid station, which cost a lot," says Muralinath Gudimella, ESC Gulf Consultant and Lead Engineer at OETC. "With a fully monitored solution, we have been able to reduce the number of guards we need and ensure they're working where they're needed most."

Read the full Oman Electricity Transmission Company case study at security.gallagher.com

Airport manages access to highly-restricted areas

Christchurch International Airport, New Zealand

Christchurch International Airport receives over six million passengers and 70,000 commercial flights per year. In a legislation-driven environment, the airport is regulated by a number of Civil Aviation mandates and rules, including the requirement to control and monitor all access to restricted landside and airside areas. As part of a new terminal design, the airport company Christchurch International Airport Limited (CIAL) required innovative new security solutions that afforded greater system flexibility.

Gallagher's monitored pulse fence perimeter solution was chosen to secure a section of Christchurch Airport's 16km fence line – which protects more than 300 hectares of land. The site's perimeter security incorporates five vehicle auto-gates which allow authorised vehicles access to the airfield. When drivers badge their access card at an auto-gate, a photo of the cardholder appears on the operator's screen, along with competency information. If the driver's Civil Aviation ID, airside driving permit, or other competency, is due to expire, the operator is notified on screen and can advise the driver. The main auto-gate is manned 24 hours a day, seven days a week. If someone requests access at an unmanned auto-gate, their photo and competencies are channelled to the operator at the main auto-gate, reducing after hours staff and running costs.

"Effectively managing access to airside areas is essential for us" said Ford Robertston, Manager of Quality and Security at CIAL. "We need to know that every single airside entry is by a current, authorised person - Gallagher's system provides exactly that."

Read the full Christchurch International Airport case study at security.gallagher.com

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3E4573 - 08/17