

Case Study

National Labour Security Business working on a National Housebuilder's Site



Project Specifics

Project Duration:

 48 months

Sector:

 Construction

Services Provided:

 Site security, health & safety, remote monitoring, delivery tracking, 24/7 response.

Our technology was deployed as part of a comprehensive site security and health & safety solution for a major national residential construction developer.

The project required a combination of intelligent surveillance, remote monitoring and site management technologies to protect assets, support worker safety and improve operational visibility across the development.

The Problem:

Protecting valuable plant, machinery, tools and materials remains a significant challenge on large construction projects. In addition, maintaining high standards of health and safety for employees, subcontractors and visitors was a key project requirement.

The client also faced challenges relating to delivery verification, where disputed arrival times and missed deliveries could lead to delays, additional costs and operational inefficiencies. A solution was required that would provide reliable, evidence-based records of site activity.

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The Solution:

Following a detailed site assessment and consultation with project stakeholders, a comprehensive technology solution was deployed to address the site's security, safety and operational requirements.

A Smart Site system was installed within the main compound, enabling the integration of PPE detection and thermal imaging cameras. These technologies generated real-time alerts when required PPE was not being worn or when personnel entered designated high-risk areas. Additional fixed cameras were deployed to provide coverage of site offices, storage areas and parking facilities, with live viewing and playback capabilities available to authorised site personnel.

For areas where power infrastructure was not yet available, Eco Solar CCTV Towers were installed. These autonomous units incorporated AI-powered analytics and virtual tripwire technology, helping to detect unauthorised activity while significantly reducing false alarms.

To improve delivery accountability, advanced ANPR technology was integrated at the site entrance. This provided accurate records of vehicle arrivals and departures, creating an auditable log that could be used to resolve any delivery-related disputes.

Outcome

The deployed technology successfully met the client's requirements for site security, health and safety, and operational oversight.

PPE detection, thermal monitoring and AI-powered surveillance enhanced existing safety procedures, while ANPR technology provided a reliable audit trail for site deliveries and vehicle movements.

The combined solution delivered improved visibility across the development, reduced security risks, strengthened health and safety compliance, and provided project stakeholders with greater confidence in day-to-day site operations.

