



For Complete Security

Security O&M and Monitoring Solutions for Solar & BESS Sites

In utility-scale solar and BESS environments, perimeter protection systems are most often compromised by unmanaged ground conditions, environmental movement, vegetation overgrowth, false alarm noise and unnoticed physical damage. When these issues are only discovered after an incident, sites face preventable breaches, prolonged downtime and extended insurance investigations due to incomplete maintenance records.

GBSG closes this gap by delivering a proactive, multi-layered maintenance engineering framework built specifically for solar and BESS security systems. This is supported by NSI Gold compliance and full GDPR audit trails.

Multi-Layered Technical Maintenance Architecture

To protect system integrity, support insurer requirements, stabilise operational expenditure and maintain long-term asset performance, GBSG delivers a proactive, multi-layered maintenance engineering framework.

We have a dedicated Solar Technical Helpdesk to support stakeholder reporting, alert configuration and site access programming. If faults occur, the helpdesk can remotely connect for rapid diagnostics. When remote resolution is not possible, we provide an emergency engineer call-out service in line with the site's service level agreement.

The Security System Takeover

We can take over management of pre-installed systems - including monitoring, maintenance and helpdesk support - following consultation and infrastructure assessment.



Key Features

Pre-Maintenance Technical Audits

Before any site visit, GBSG performs remote diagnostics across all IP cameras, telemetry channels and field sensors. Engineers arrive with confirmed fault logs and optical-alignment data, allowing them to focus on structural corrections rather than basic troubleshooting.

Physical Ground and Optical Geometry Inspections

Weather, ground movement and ageing timber posts can distort CCTV mounting points and shift detection zones. Onsite, GBSG engineers complete full 70m walk-tests, re-align optics, inspect duct seals, verify concrete pad stability and ensure vegetation height is not obstructing detection.

Compliance, GDPR and Data Protection Governance

Monitored sites receive mandatory biannual physical and diagnostic testing in line with NSI Gold and BS 8418:2021. Field-of-view checks and privacy-masking audits ensure continued compliance with the Data Protection Act and GDPR.

False Alarm Management (Edge Precision vs. Cloud AI)

GBSG prioritises correct hardware alignment and site condition management to minimise false alarms at the edge. Legacy sites can incorporate ARC-level AI filtering to enhance detection accuracy and further reduce nuisance activations.

GBSG Remote Monitoring Package

Remote monitoring detects intruders at the perimeter in real time. GBSG operates a dedicated remote Monitoring Centre through its sister company, GB Monitoring. The facility incorporates an NSI Gold-accredited Alarm Receiving Centre (ARC) and Remote Video Response Centre (RVRC), providing 24/7 surveillance, verification and response.

The diagram below illustrates how the GBSG remote monitoring package protects solar and BESS sites.



Partner with GBSG for complete Solar and BESS site protection.

t. 01775 821100 e. sales@gbsg.co.uk w. gbsg.co.uk/solar

