

Loss Prevention Standards – Asset Classes

# Ground Mounted Photovoltaic Solar Farms Security - Checklist

Version: 1.1

Date: 24<sup>th</sup> October 2024

Ground Mounted PV/Solar Farms - Security Checklist



# Ground Mounted Photovoltaic Solar Farms Security - Checklist



Location	
Date	
Completed by (name and signature)	

	Security Management Checklist	Y/N	Comments
	Security Management Policy: <ul style="list-style-type: none"> <li>Is there a security management policy in place?</li> <li>Is this reviewed at least annually?</li> </ul>		
1.	Security Risk Assessment: <ul style="list-style-type: none"> <li>Has a Security Risk Assessment been completed and/or recently reviewed (including after local or site related security incidents such as theft, fence cutting, gate or lock tampering)?</li> <li>Has a Security Consultant, preferably one registered with the Register of Chartered Security Professionals, and with a speciality in PV/Solar Farms and rural crime been utilised for risk assessment preparation or review?</li> <li>Have all actions identified in the Security Risk Assessment been completed or scheduled for completion?</li> <li>Are local security issues or incidents monitored?</li> </ul>		
2.	Security Guarding: <ul style="list-style-type: none"> <li>Are guarding arrangements in place with an SIA registered security company?</li> <li>Are inspection reports/logs produced?</li> <li>If so, are these reports/logs reviewed for adequacy?</li> <li>Have all issues identified by the security guarding company been suitably actioned?</li> </ul>		
3.	Maintenance: <ul style="list-style-type: none"> <li>Are there recorded maintenance schedules in respect of:                             <ul style="list-style-type: none"> <li>Fencing.</li> <li>Locks.</li> <li>Detection.</li> <li>Forensic Marking.</li> </ul> </li> </ul>		

	<ul style="list-style-type: none"> <li>▪ VSS.</li> </ul>		
4.	<p>Self Inspections:</p> <ul style="list-style-type: none"> <li>• Is a recorded self inspection regime in place?</li> <li>• Are self inspections up to date?</li> <li>• Have any issues identified in the self inspection regime been repaired or repairs instigated?</li> </ul>		
	<p>Emergency Response Plan:</p> <ul style="list-style-type: none"> <li>• Has a recorded Emergency Response Plan been completed and/or recently reviewed?</li> <li>• Have any actions identified in the Emergency Response Plan been completed or scheduled for completion?</li> <li>• Does the Emergency Response Plan have an appropriate response time agreed with the security company?</li> <li>• Is there notification to the appropriate officials and personnel to respond to an incident?</li> <li>• Are staff members prohibited from attending emergency notifications without police or security guard presence?</li> <li>• Are security system providers contracted to attend site and carry out emergency repairs 24/7/365?</li> </ul>		
	<p>Cyber Security:</p> <ul style="list-style-type: none"> <li>• Are appropriate cyber security measures in place?</li> <li>• Are risk assessments in place and regularly reviewed?</li> <li>• Are management policies in place detailing key responsibilities, protocols, and policies?</li> <li>• Are these policies regularly reviewed?</li> </ul>		

	Scheduled Site Inspection Checklist	Y/N	Comments
5.	<p>Perimeter Fencing:</p> <ul style="list-style-type: none"> <li>• Is perimeter fencing appropriate for perimeter protection e.g., intruder resisting?</li> <li>• Has a cross section of the perimeter fencing been inspected?</li> <li>• Were any issues such as cutting, or signs of tamper evidenced?</li> <li>• If so, have repairs been instigated?</li> <li>• Are any terraforming or security ditches maintained in good condition?</li> <li>• Is security signage (Forensic marking, security guarding, VSS etc.) displayed at regular points?</li> <li>• Are emergency contact numbers provided?</li> </ul>		

6.	<p>Access Gates:</p> <ul style="list-style-type: none"> <li>• Are all access gates and posts in good working condition?</li> <li>• Are hinges suitably capped or spot welded?</li> <li>• Are CEN Grade 4 or 5 padlocks fitted?</li> <li>• Are good quality chains used?</li> <li>• Are padlocks housed within steel enclosures?</li> <li>• Is security signage (forensic marking, security guarding, VSS etc.) displayed on all access gates?</li> <li>• Are emergency contact numbers provided?</li> <li>• Are security posts installed at least one metre in front of access gates?</li> <li>• If not, are moveable barriers utilised to protect against unauthorised vehicular access?</li> <li>• Is any lift truck equipment for the handling of moveable barriers secured and isolated to prevent unauthorised use?</li> </ul>		
7.	<p>Video Surveillance Systems</p> <ul style="list-style-type: none"> <li>• Is the VSS system and detection in good working order?</li> <li>• Are remote monitoring systems working correctly?</li> <li>• If not, have repairs been instigated?</li> <li>• Are cameras covering all access gates, full perimeter fencing, critical equipment, and buildings?</li> <li>• Are all cameras functioning correctly?</li> <li>• If not, have repairs or replacement been instigated?</li> <li>• Is any perimeter intrusion detection (PID), typically mounted to perimeter fencing, in good working order with no signs of tampering?</li> <li>• If not, have repairs been instigated?</li> <li>• If present, has the audio challenge facility been tested with the Remote Video Response Centre (RVRC)?</li> </ul>		
8.	<p>Physical Security:</p> <ul style="list-style-type: none"> <li>• Are buildings secured with good quality BS3621 compliant locks?</li> <li>• Are windows secured with key operated locks?</li> <li>• If so, have keys been removed from locks?</li> <li>• Are compounds secured with good quality padlocks?</li> </ul>		

9.	<p>General Security:</p> <ul style="list-style-type: none"> <li>• Are any theft attractive spares stored at the site e.g., PV/Solar panels, cabling etc?</li> <li>• If so, has storage been reduced to essential spares only?</li> <li>• Are the remaining theft attractive spares stored in a robust building with appropriate security to door openings (windows not recommended)?</li> <li>• Is diesel for any back up generators reduced to essential supplies and adequately secured.</li> <li>• Are PV/Solar panels secured in place as per the design?</li> <li>• Is there sign of tampering to any panels?</li> <li>• If so, have repairs been instigated?</li> <li>• Is any concrete backfilling showing signs of damage or wear?</li> <li>• If so, have repairs been instigated?</li> </ul>		
10.	<p>Forensic Marking:</p> <ul style="list-style-type: none"> <li>• Is forensic marking signage displayed on all access gates?</li> <li>• Has forensic marking been applied to cabling including buried and string cables, PV/Solar panels, and other valuable equipment onsite?</li> <li>• Where applied in excess of five years, has the marking been renewed/reinstated?</li> </ul>		

10.	<p>Additional comments:</p>
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