

# CASE STUDY

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**Service Sector:** Integrated Perimeter Detection System (Technology)

**Client:** Solar Farm, Portugal

**ISD-Tech** has recently completed an integrated perimeter detection system for one of Europe's largest solar farms which covers a massive 99,999 Sq KM. The power output of this site will be over 45 mega watts when running at full capacity and has over 2,500 solar panels, each the size of a house.

### The Brief

The client's brief was to provide a secure perimeter and detection system to detect people and vehicles moving close to the defined perimeter of the site and provide early warning detection and notification to the onsite security team of any unauthorised movements or intruders.

### The System

The final design for this project delivered a radar solution combining two elevated ground radar units with a modified tilt along with integration and control of two ruggedised external PTZ cameras.

The radars were installed to provide combined coverage around the perimeter of the site and designed to provide an overlap from each radar to allow for some of the challenges that our team faced, including the different topography and terrain of the perimeter ground to be protected. To overcome these problems the radars were mounted at height of 5.0 meters.

The overall system components that were delivered for this project included the design, installation and commissioning of a dedicated multi-mode fibre optic network between the two radar locations and the central server control room.

### Operation

The finished system provides millimetre detection for the complete perimeter of the site with individual detection zones for each radar and real time tracking of intruders via the CCTV cameras.

When an intruder is detected, an audible notification will be received by the operator and the relevant camera which is assigned to the radar which has detected the intruder, will track them and provide the operator with a live image of the intruder which will stay with them as they move around the site. This has proved to be very practical and has helped streamline the security monitoring of the site.

Our client is extremely pleased with the finished system and feels that the delivered solution was very flexible in its deployment and coverage.

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