



## Solar Parque Seixal

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Parque Seixal is a vast solar park in southern Europe, built in 2014. It has a total area of 45.000 square meters with 9.000 solar panels installed. This solar park produces 4 million GWh of energy per year, which is used by the nearby city.

This site is in need of reliable security solutions as it is particularly prone to thefts of its high value equipment. Additionally, as the panels generate very high voltages, the site can be quite dangerous for unauthorized visitors. There is supposed to be relatively low activity on this remote site. However, frequent animal movement has made it impossible to install a generic motion detection system.

A few years after the construction in 2014 Irisity took over as provider of video analytics to the solar park – transforming its operations and helping the security company work proactively.

### Challenges

- Large equipment value to protect
- Theft, vandalism and fires caused costly power outages.
- Dangerous site caused personal safety issues due to high voltage

### Solution

- All existing cameras upgraded with IRIS™

### Customer value

- 99.99% of active camera time filtered out
- No new hardware equipment needed
- Multiple thefts avoided
- No more power outages due to vandalism or flames

### Thefts, vandalism, and fires

This immensely big site contains a large amount of high-value equipment to protect. The owners of the solar park had recurring problems with thefts of solar panels and costly outages due to vandalism and fires. Their main concern was personal safety hazards for unauthorized people on-premises due to the very high voltages being generated on-site.

### An old system with analog cameras

The park had an outdated camera system in place with low-quality analog pictures. This camera system had a rudimentary analytics program included, which was unusable for the client due to the high amounts of false alarms and missed events. The old system sent alarms on everything from wildlife, to vegetation moving in the wind, and the sun reflecting from the panels. Therefore, the cameras were used purely for manual surveillance checks by the security company – an inefficient and time-consuming activity, that unfortunately resulted in several missed events.

### Upgrading the site with IRIS™

When implementing the IRIS™ analytics to the Seixal solar park there was no need for the client to buy any new hardware. The existing IP, thermal, and CCTV cameras got upgraded with IRIS™ – now able to send real-time alarms to the local security company as soon as an intrusion is detected. Thus, security operations got transformed from manual to automatic with an easy software implementation overnight.

### Results: 99,9% active camera time filtered out

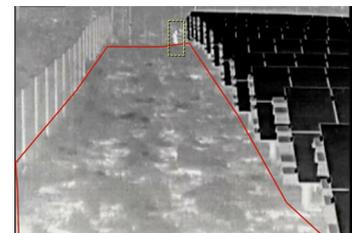
With IRIS™, multiple events are caught every week, safeguarding people from harm and protecting the valuable solar panel equipment. Through optimizing these security operations, guards and operators can instead focus on true incidents as they occur. IRIS™ filters out 99,9% of active camera stream time and the site has gone from 86 400 seconds of active camera time to an average of 2,3 seconds, per camera, per day.



*Vandalism and theft was a normal occurrence before implementing IRIS™.*



*The old cameras were upgraded to detect intrusions with superior range.*



*Detection of an intruder on the site caught on 250 meter distance.*

