



SOLON Energy GmbH

NETAVIS Observer realizes perimeter security for critical infrastructure due to seamlessly integrated video analytics iCAT

Challenge

SOLON provides intelligent system solutions for solar power plants and has become one of the most innovative and reliable companies in the entire sector thanks to its focus on solar modules and technology ranging from roof systems to full-scale power plants. With its subsidiaries in Germany, Italy, and the US, SOLON is a global service provider in the field of solar power.

Solar panels are highly valuable assets. Thus, organized theft as well as various other scenarios is a real threat for solar power plant operators and often it is a question of minimum reaction time to prevent loss and damage. The central 24/7 control room at the headquarters in Berlin needs a highly reliable video surveillance system for perimeter security, alarm verification of various security systems and of course live monitoring as well as recording.

Solution

Each solar power plant of SOLON is surrounded by a fence of about 2.000 -2.500

m length. Usually, one camera is able to cover about 60 m of the fence, so in total 30-40 cameras per plant are necessary to monitor the area. NETAVIS Observer, the professional video management platform known for its open and flexible software architecture, governs the video surveillance installations.

The seamlessly integrated NETAVIS iCAT video analytics allows for reliable perimeter security. Additionally, operators in Berlin are notified in case of camera sabotage like defocusing or covering. It is quite extraordinary, that all cameras on a site are performing video analytics and can easily be processed on a single server. Hardware investment costs are kept low for SOLON due to the high performance of NETAVIS software.

All on-site camera servers in Europe are connected to the NETAVIS Observer central user server in Berlin. Interfaces like

I/O-module and SNAP XML allow for the integration of the security management system, third party perimeter security systems and other applications. In the control centre, alarms of all systems are verified visually by the operator and according to a precisely defined alarm plan, actions and problem solving procedures are initiated.



Benefit

Since the video surveillance solution NETAVIS Observer is in place, many issues could be resolved satisfyingly and in a timely manner. One example was the automatic detection of smoke by NETAVIS iCAT video analytics at the solar panels. Thanks to the alarm at an early stage and the effective action plan big fire damage could be prevented. In another case, a neighbor fell a tree and caused damage to the fence. By handing over the relevant NETAVIS Observer archive files, the costs could be claimed back successfully.



SECTOR:	Critical Infrastructure
LOCATION:	Italy, Europe
PARTNER:	Burgenkönig Video GmbH, ASIPlan GmbH
SOFTWARE VERSION:	NETAVIS Observer 4, eXtended Edition
SPECIAL FEATURES:	SNAP XML interface, I/O interface, iCAT video analytics, Sabotage Detection
TECHNICAL DETAILS:	29 cameras and 3 users at the site south Italy, distributed installation with central control room at headquarters Germany