

SUCCESS STORY

Dahua's Thermal Perimeter Protection Solution Secures Sunprime Solar Plant in Italy

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<https://www.youtube.com/watch?v=BMhaYgJupgA&t=14s>

Overview

Founded in 2020 by a team of energy professionals in Milan, Sunprime is a fast-growing independent renewable energy producer that develops sustainable photovoltaic plants across Italy. Their focus is mainly commercial and industrial (C&I) segment, ground-mounted systems on industrial land and industrial electricity storage systems.

Challenges

With global initiatives toward green sustainability and carbon neutrality, the demand for photovoltaic power generation construction is growing rapidly. Sunprime's project pipeline currently consists of several projects, many of which are located in very remote and often unattended areas (e.g. Maleo, Lodi Province), making it vulnerable to thieves that steal valuable cables and panels. Securing the vast area of photovoltaic plants requires a comprehensive surveillance system that can monitor the site at all times.

Solution

The technical and commercial partnership between Dahua and Sunprime enabled the project team to come up with an effective design, implement cutting-edge technologies and pay great attention to the positioning of the cameras. In order to safeguard one of the client's solar power plants covering approximately 70,000 m², more than 1,500 hybrid cameras (thermal cameras + traditional cameras) equipped with AI algorithms were deployed around the area, actively monitoring for potential intrusion 24/7. These state-of-the-art Dahua products can stably operate even under harsh weather conditions, making them ideal for outdoor applications. They are equipped with advanced AI algorithms capable of generating accurate alarms while filtering out false positives, which makes monitoring more efficient and more convenient for the client.

In addition, through fiber optics, the video stream from the cameras are sent to the technical rooms in the solar park via Dahua's industrial switches. The signals are then managed by another row of switches and finally transmitted to high-resolution recorders. The Dahua AirShield wireless alarm system was also installed in each technical room in the park, providing another level of protection for the central equipment. What's more, all the systems of Sunprime's solar parks are now centralized through local routers thanks to the Dahua DSS management software installed

in the surveillance operations center.

Results

Sunprime's solar power plant has witnessed how Dahua's thermal perimeter protection solution can be utilized to safeguard its property and assets located in remote and secluded areas. In addition to early business communication, Dahua has assisted Sunprime from pre-sale stage to the implementation of the products, with plans and designs based on the actual needs of the customer. The high-quality service offered by Dahua has gained praised from the client.

"The implementation of this type of systems was made possible thanks to the support of the Dahua projects department, which assisted us from the pre-sale stage up to the implementation of the products," says Mr. Michele Vianello, Asset Manager at Sunprime. "I take this opportunity to once again thank them for their support throughout the entire project," he added.

After the successful completion of this project on the first site, Dahua has secured new projects for another 80 sites with approximately 20 thermal imaging cameras for each site, generating a total supply of 1,600 thermal imaging cameras.

About Dahua Technology

Dahua Technology is a world-leading video-centric AIoT solution and service provider. Committed to enabling a smarter society and better living, Dahua has deployed its products, solutions, and services in 180+ countries and regions, covering transportation, manufacturing, education, retail, banking & finance, energy, environmental protection and various industries. The company has more than 23,000 employees, with over 50% of R&D technicians. Focusing on technological innovation, Dahua has established five major research institutes, with annual R&D investment accounting for approximately 10% of its sales revenue. The company continues to explore emerging fields based on in-depth insights and layout of AIoT, and has extended its innovative businesses including Imou, iRAYPLE, Pixfra, Waythcan, Wisualarm, Dahua Memory, etc. In line with its core value of "Customer Success, Employee Achievements", Dahua strives to provide the market with excellent quality and service, create more value for customers, and proactively contribute to a safe, low-carbon, beautiful and harmonious world.

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