



BUSINESS APPLICATION

ELECTRICAL TRANSFORMER AND DISTRIBUTION SUBSTATIONS

SORHEA



LEADER IN PERIMETER PROTECTION **AT YOUR SERVICE**



The earlier you detect, the more you reduce the risk of intrusion and potential malicious acts or thefts on a site.

Perimeter intrusion detection on your premises allows for :

- **Advance warning of an intrusion,**
- **Early verification upon receiving an alarm notification,**
- **Early response triggered through the centralised alarm information system.**

Perimeter intrusion detection is our business. We have developed a wide range of technologies that includes wireless and solar powered systems, offering the most innovative solutions for protecting your critical infrastructure sites.



TECHNOLOGICAL ANSWERS TO MEET EVERY NEED

- **Intrusion detection** by active infrared non-physical (virtual).
- **Approach detection** by dual technology detectors and video analytics.
- **Intrusion detection and deterrence** by physical barriers: fence-mounted shock detection cables and electrified detection fencing.



COMMITMENTS THAT MAKE THE DIFFERENCE

- **Guaranteed quality** : over 30 years of experience in supplying our customers.

ISO 9001

BUREAU VERITAS
Certification



- **A customised service** to support you at every stage of your project.
- **On-site technical support** for engineering, pre-sales support and site commissioning.
- **A network of trained installers and integrators** worldwide.

REFERENCES

For many years, we have been equipping electrical transformer and distribution substations in France and abroad. The transport, transformation and distribution of electricity must be protected in order to maintain service at all times.

TRANSFORMER STATIONS GREECE

SOLARIS

The Greek National Electricity Transport Network's objective is to prevent intrusions into its main electrical transformers. We provided a solution without any civil engineering work, that is reliable, suitable for use in harsh electromagnetic environments and above all easy to duplicate to protect several similar sites. 11 SOLARIS columns were installed on a reference site with a 900 m perimeter.



PRIMARY SUBSTATIONS BOLOGNA, ITALY

G-FENCE 600Z

One of the main security issues for electrical distribution substations is to protect the site against copper theft and damage that could have major consequences on the region's electricity supply. In Italy, the perimeter of the Bologna site was equipped with a fence and we chose to install the G-FENCE 600Z shock detection cable to detect any intrusion along the fence.

TRANSFORMER SUBSTATIONS GRENOBLE, FRANCE

SOLARIS

The main objective here is to protect individuals against a high risk of electrocution. Since it was already in operation, it was necessary to protect the site quickly, using a very high-performance solution: we recommended the installation of the SOLARIS autonomous infrared barriers, in conjunction with the PIRAMID dual technology sensor for optimal protection of the entrance gate.



ALL OF YOUR NEEDS ADRESSED, FROM APPROACH DETECTION TO INTEGRATION WITH YOUR ON-SITE SYSTEM

Electricity management is a sensitive operation that guarantees transport, transformation and distribution. From the power stations to the secondary substations as well as the transformers, our security solutions have two objectives:

- to protect our fellow citizens against the risks of physical injury while preventing unauthorised persons from accessing sites
- to safeguard sites, and the people working on them, against criminal damage, and, in particular, copper theft.

OUR TECHNOLOGICAL SOLUTIONS
YOUR SPECIFIC NEEDS

- Overcomes **the lack of electric power supply**
- Anticipates **future changes to perimeters**
- Preserves **detection integrity**

AUTONOMOUS INFRARED BARRIERS WITHOUT WIRING



- Ensures **reliable detection** that provides **precise location of the intrusion**
- **Optimises alarm verification** via the video system

INFRARED BARRIERS WITH ZONING FUNCTION



- Secures **long perimeters**
- Adapts to **different types of fencing**
- Limits the amount of **infrastructure**

SHOCK DETECTION CABLES




- Secures **isolated zones** (gates, the back of a building)
- Ensures **approach detection**

DUAL TECHNOLOGY DETECTORS



- Guarantees **detection 24/7**
- Provides **on-site tracking**

THERMAL DETECTORS AND IMAGE ANALYSIS



- **Protects, detects and repulses intrusions**
- **Deters even before the intrusion**

FENCES ELECTRIFICATION SYSTEMS + ELECTRIFIED OUTRIGGER



- Protects **highly sensitive areas**

DETECTION FENCING + OVERHANG DETECTORS

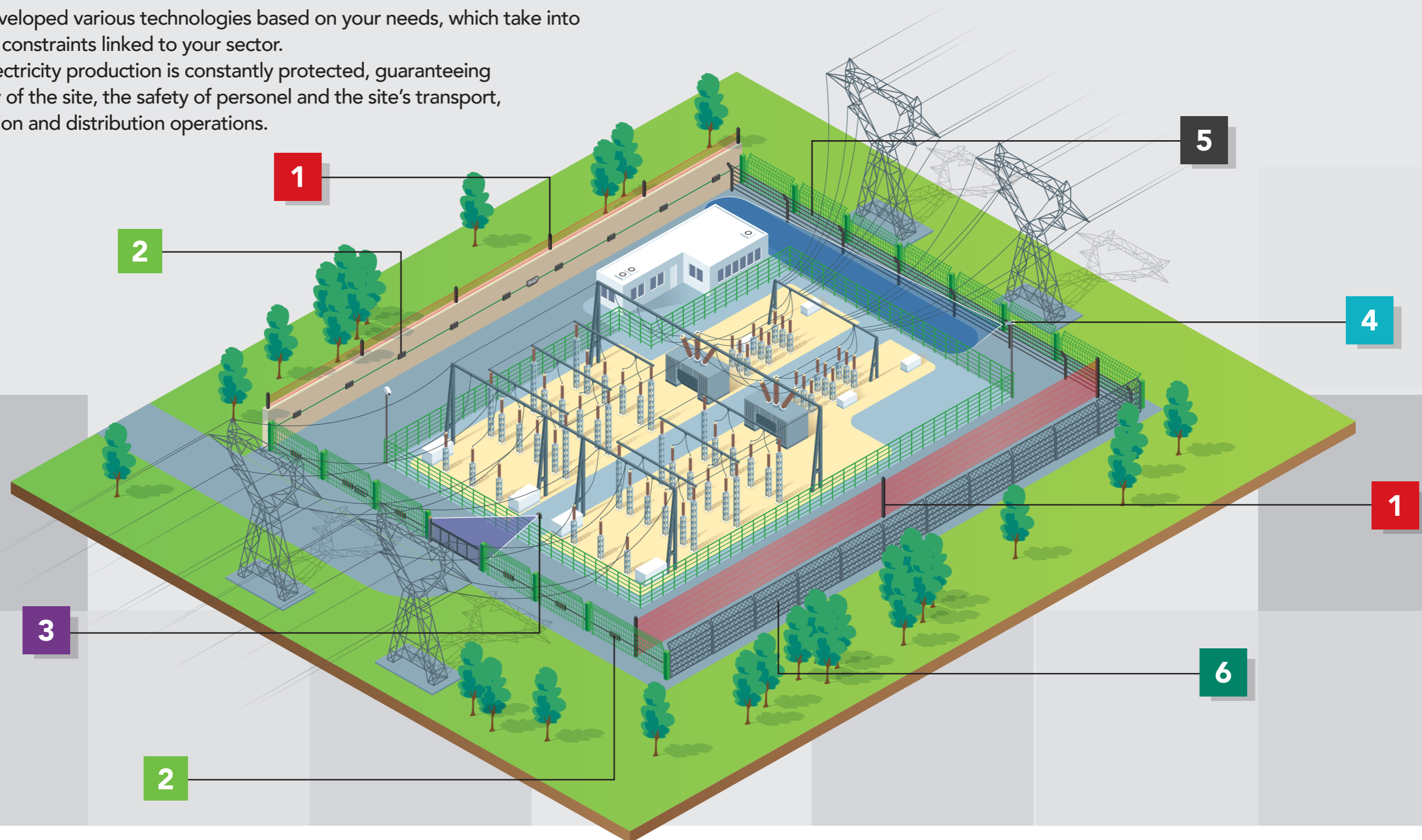


OUR SECURITY SOLUTIONS

FOR YOUR ELECTRICAL TRANSFORMER AND DISTRIBUTION SUBSTATIONS

For more than 30 years, our intrusion detection systems have been protecting electrical transformer and distribution substations in France and abroad. We have developed various technologies based on your needs, which take into account the constraints linked to your sector. This way, electricity production is constantly protected, guaranteeing the integrity of the site, the safety of personnel and the site's transport, transformation and distribution operations.

- 1** ACTIVE INFRARED BARRIERS
- 2** SHOCK DETECTION CABLES
- 3** DUAL TECHNOLOGY DETECTORS
- 4** THERMAL DETECTORS AND VIDEO ANALYTICS
- 5** ELECTRIC FENCES
- 6** FENCES AND OUTRIGGER DETECTORS





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