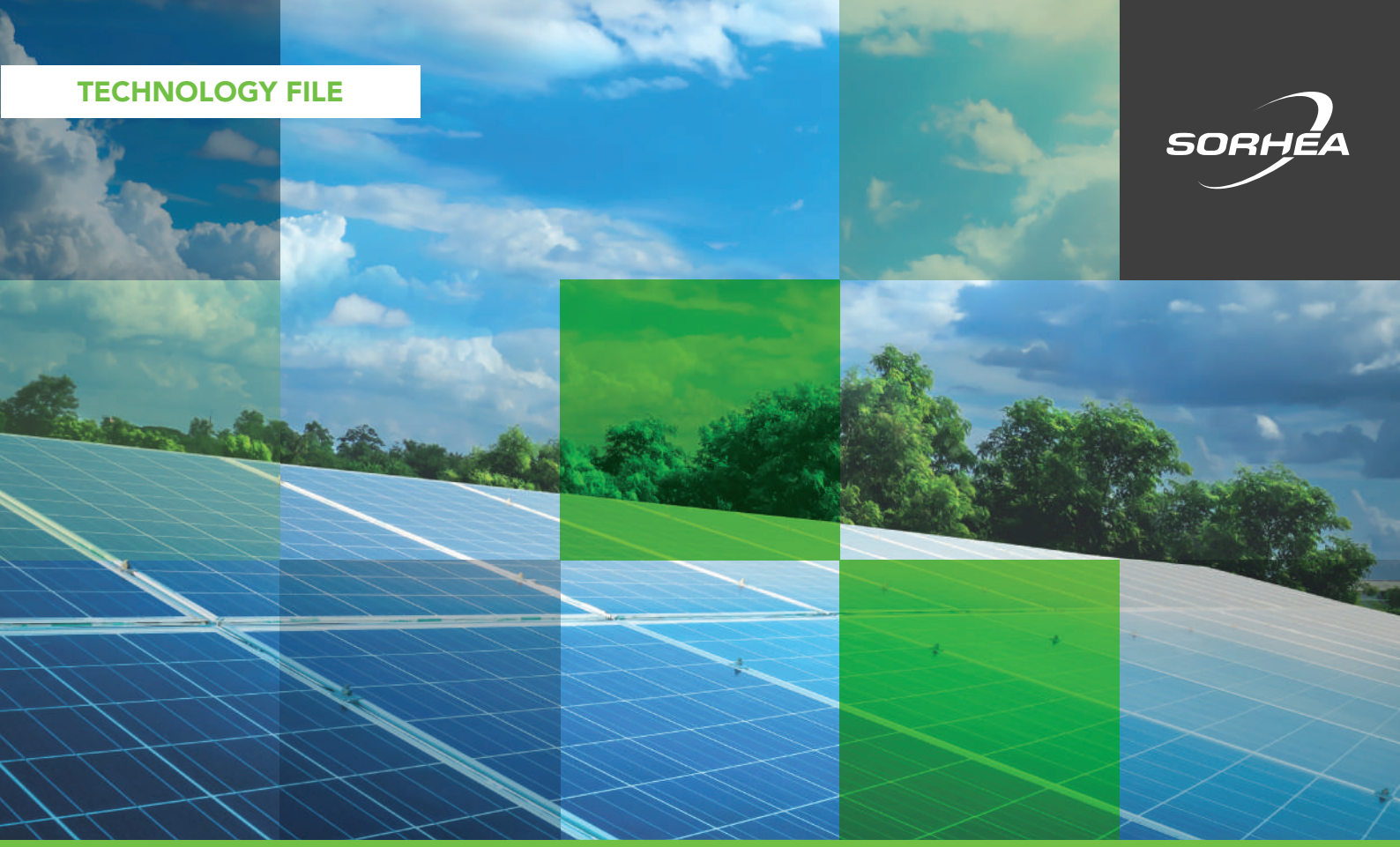
TECHNOLOGY FILE



SHOCK
DETECTION CABLES

INTRUSION DETECTION BY FENCE MOUNTED CABLE

Shock detection cables consist of cables that are installed on the perimeter fence and connected by a series of control units.

Attempts to climb over the fence or cut through it are detected by the sensors, and sent to the control unit, which then trigger an alarm or not. Shock detection cables are an intrusion alarm system set up on an existing fence to secure the site.

WHY THIS TECHNOLOGY?

- **Easy to install and maintain:** limited civil engineering required
- **Makes it possible to equip large and complex perimeters:**
  - long distances
  - with all types of fences

OPERATING MODE

SORHEA shock detection cables are an intrusion detection system installed on fences or cladding, consisting of a standard cable with pre-molded sensors and control units (UG).

The cable can be installed quickly and easily. It is also easy to maintain.

WHY SORHEA'S?

- **Accelerometer sensors**
- **Pre-molded sensors integrated in a standard cable** for easy installation
- **Analysis distributed over** the whole protected perimeter
- **Centralisation of alarm information** on our MAXIBUS Universal hub

WHY OUR SOLUTION?

EASY TO INSTALL:
standard cable with pre-molded sensors, stand-alone solution

RELIABLE:
Distributed analysis, filtering of weather events

EFFICIENT:
precise location, zoning

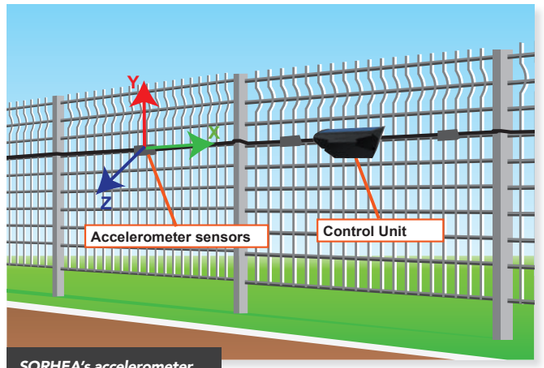
COST SAVINGS:
limited civil engineering required

The shock detection cable developped by SORHEA uses accelerometer technology inside pre-moulded sensors along the cable.

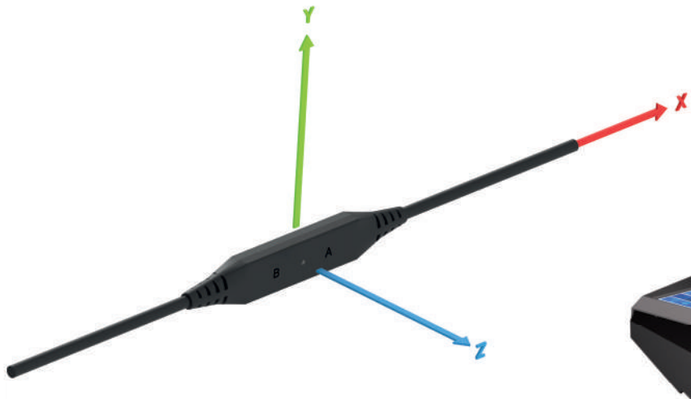
Each sensor can detect changes to its environment by analysing the magnitude of the X,Y,Z accelerometer data. In this way the system is able to detect vibrations on the fence. The sensors communicate the data provided by these vibrations to the Control Unit, which analyses it and will either filter the event or communicate an alarm depending on the settings.

Distributed Intelligence over the entire system makes it possible to filter unwanted alarms such as strong wings and heavy rain.

Localisation of an intruder alarm can be acheived to an individual fence pannel as each pannel will have a sensor fixed to it. The sensors are **pre-moulded** and integrated into the cable every 3 m.



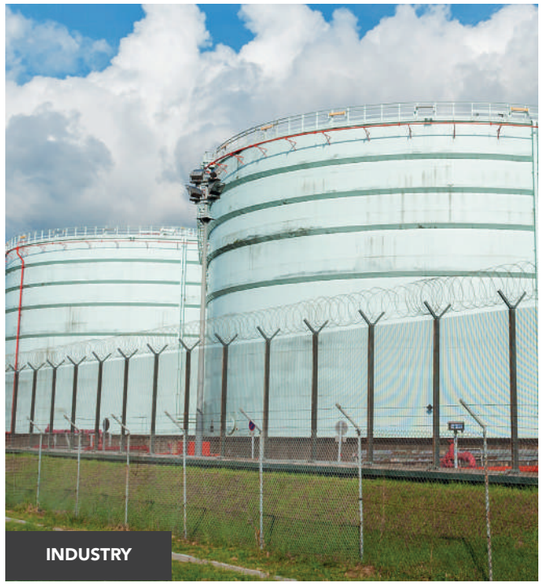
SORHEA's accelerometer

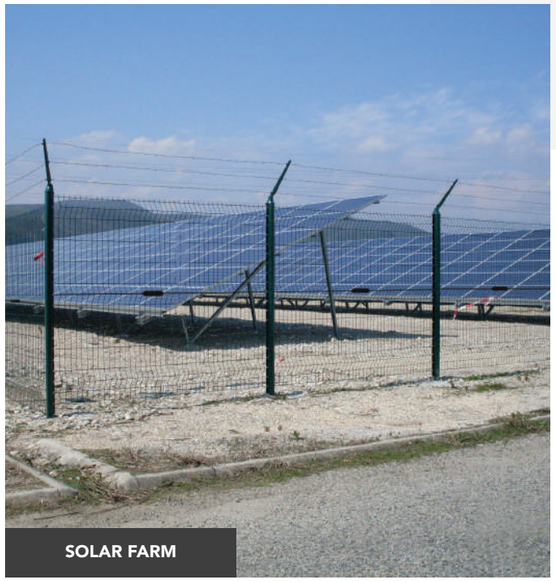


SORHEA's accelerometer

Control Unit (UG)

APPLICATION EXAMPLES


INDUSTRY


SOLAR FARM

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