



WiseSensing: continuous monitoring without batteries

Structural and quality monitoring of high voltage distribution lines.



Fully autonomous: powered by converting the energy present in the environment.



Wireless data communication: no need for cabling of structures.



Water resistant (IP68) and UV resistant.



Easy and fast installation on the HV cable: no cables or fragile parts.

WiseSensing is an innovative solution for continuous monitoring of HV cables. It exploits sunlight and the magnetic field generated by the current flowing in the cable in order to power a complete and efficient monitoring system for environmental, structural and transmission quality parameters. In this way, it enables fast and effective action when an issue is detected.

Functioning guaranteed starting from 15 A on the cable. First charge time of 30mins if both the sources are present, and of 1h and 30mins if no light is present. After the lack of both the sources, it stays active for up to 7 hour if it was completely charged, down to a min of 30mins with only the vibrational reservoir charged.



Amplitude and frequency of the flowing current



Shocks on the conductor



Magnetic field around the cable and on ground level



Illumination of the device



Cable and ambient temperature



Tilt and oscillations of the cable

WiseSensing
powered by WISEPOWER

In collaboration with

NiPS Laboratory
Noise in Physical Systems