KONČAR
Electrical Engineering
INSTITUTE

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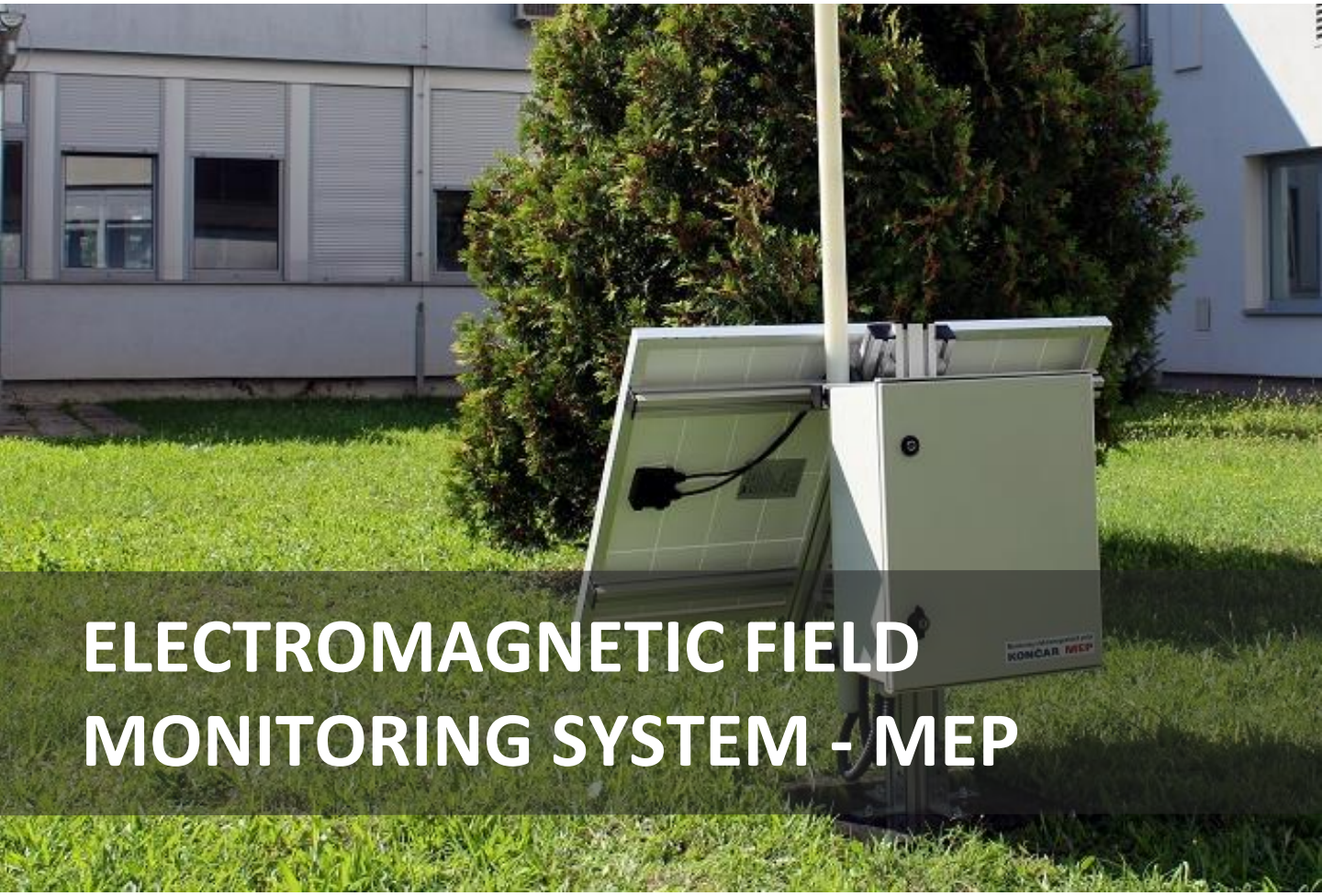


ELECTROMAGNETIC FIELD MONITORING SYSTEM - MEP

www.koncar-institut.com

Experts in the field of monitoring electromagnetic radiation

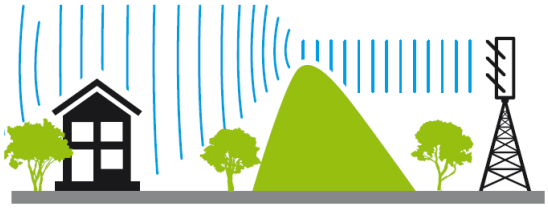
KONČAR - Electrical Engineering Institute Inc. has over 55 years of experience in the field of electromagnetic field measurements. Among the other, we perform laboratory testing of various equipment and field tests of radio frequency signals.

The importance of continuous monitoring of electromagnetic fields

For better signal coverage, systems that emit electromagnetic waves are placed in locations where many people are active. Despite frequent warnings of potential harmful impacts of electromagnetic radiation, so far it has not been possible to check and disclose the actual radiation level to the public.

The results of mandatory electromagnetic radiation measurements prescribed by law are generally not publicly available. The lack of information leads to public concern for the health and safety of the environment in which they are located.

Although currently available electromagnetic field estimation programs can show the simulation of electromagnetic dispersion, experience shows that systems behave differently according to the location, position and height, and depending on whether they are in urban or non-urban areas. In addition, occasional measurements of electromagnetic fields can give an incomplete picture of the current state.

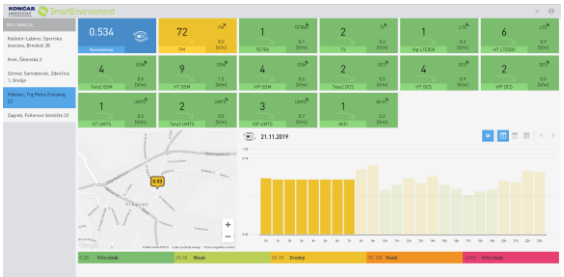


For this reason, KONČAR - Electrical Engineering Institute has developed a system for monitoring of electromagnetic field radiation for all important frequencies.

Insight into the monitoring results, i.e. actual radiation values, is available for local communities. In this way, interested citizens can compare actual radiation values with the levels defined in the Regulations for protection against electromagnetic fields.

MEP and benefits for the community

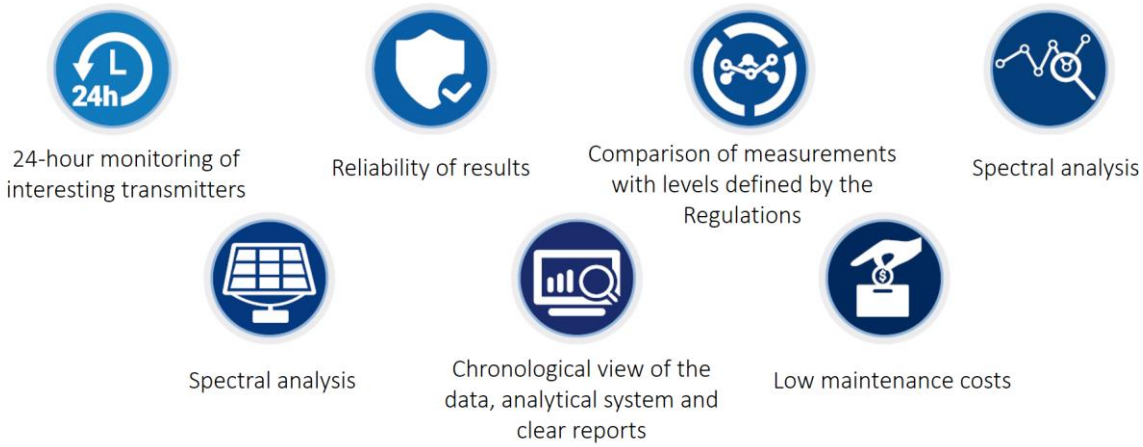
Electromagnetic field monitoring system - MEP provides a sense of security thanks to publicly available information that eliminates suspicion of radiation levels, at any time of the day, by reviewing the monitoring results of individual frequency bands and overall calculations through a customized application.



Display of cumulative measured values of electromagnetic field radiation

Display of historical data of measured values of electromagnetic fields, 30 days back

MEP characteristics



Installation and monitoring options

MEP is an autonomous system that can be set up at many location. The system consists of an isotropic antenna for measuring all 3 axes, spectrum analyzer, GSM modems and a software application that receives data and displays it in a user – friendly form.

The measurement station, through the spectral analyzer and antenna, measures and processes the level of electromagnetic fields in predefined frequency ranges in real time. The result is the sum of electromagnetic fields across all frequency bands (FM, TV, TETRA, GSM, DCS, UMTS, WIFI ...).

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Contact us for more information!

www.koncar-institut.com

KONČAR Electrical Engineering Institute, Inc.

compliance@koncar-institut.hr

Fallerovo šetalište 22
10000 Zagreb, Hrvatska