

Ph. D. Mito Zlatanoski, El. Eng.  
University “Sv. Kiril i Metodij”  
Electrotechnical Faculty – Skopje  
Ph. D. Gorge Kacurkov,,  
Tomislav Stajkovski,  
Mine Institut - Skopje

## **THERMOVIZION INSPECTION IN HIGH VOLTAGE SUBSTATIONS**

### **ABSTRACT**

In order to increase the reliability of the high voltage equipment in electrical substation it's necessary to provide periodical test, inspection and maintenance. Thus, the outages of the electrical equipment will be prevented and unsupplied energy to consumer will be minimized. Thermovision inspections are performed in full operation condition. With this type of inspection it is possible to detect hot spots on the elements. Furthermore, complex analyses should be done in order to diagnose the current state of the high voltage equipment. In this paper, some practical experiences from termovision inspections performed in electric power system in Republic of Macedonia are presented.

**Keywords:** Thermovision inspection, electric substation, diagnostic testing of the equipment.