

**ELESTRICAL RESISTIVITY TOMOGRAPHY AS AN EFFECTIVE TOOL
FOR MONITORING THE EFFICIENCY OF VERTICAL DRAINAGE
SYSTEMS IN MINE WASTE HEAP**

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The paper gives an analysis of electrical resistivity tomography (ERT) measurements of the internal heap in the KBW Turów lignite mine. The methodology for measuring and interpreting ERT is presented. The registrations made in the heap with installed vertical drainage in the form of geodrains and the registrations outside this area were compared. Two measurement cross sections made at the same location but with a two-year interval were analyzed in detail. Changes in the geoelectric characteristics of the heap soil occurring during its consolidation from the next heap floor were observed.