



**ID 02**

## **Waste management and reclamation of post-mining degraded areas exemplified on Bytom-Rozbark site, Upper Silesian Coal Basin**

**DR. ŁUKASZ GAWOR<sup>1</sup>**

*<sup>1</sup> Silesian University of Technology, Faculty of Mining and Geology, Institute of Applied Geology, Gliwice, POLAND*

[lukasz.gawor@polsl.pl](mailto:lukasz.gawor@polsl.pl)

### **Abstract**

In the paper there is presented an example of complex waste management and reclamation of post-mining degraded area of former coal mine „Rozbark” in Bytom, Upper Silesian Coal Basin, southern Poland. The investigated area represents a disposal site of communal wastes, industrial wastes – particularly coal mining wastes and overflow land. There was done a complex analysis of the state of the environment before reclamation and effects of technical and biological reclamation as well as management of the area after 5 years. An evaluation of efficiency of reclamation methods where done and there were proposed steps and activities for saving natural values of described area.

**Key words:** coal-mining waste, Polish coal mining industry.

### **Povzetek**

V članku je predstavljen primer obsežnega ravnanja z odpadki in rekonstrukcije/sanacije degradiranega območja zaradi pridobivanja premoga v bivšem premogovniku „Rozbark” v mestu Bytom, v zgornjem Šlezijskem premoškem bazenu na jugu Poljske. Območje raziskave se uporablja za odlaganje komunalnih odpadkov, industrijskih odpadkov – posebnih rudarskih odpadkov nastalih pri predelavi premoga in odpadne zemljine. Izdelana je bila celovita analiza stanja okolja pred pričetkom rekonstrukcije ter po izvedeni tehnični in biološki rekonstrukciji/sanaciji/obnovi površine, kot tudi nadaljnje ravnanje s površino v 5 letnem preteklem obdobju. V članku je prikazan razvoj učinkovitih metod rekonstrukcije/sanacije in predlagani koraki in aktivnosti za ohranjanje/varovanje naravnih vrednot obravnavanega območja.

**Ključne besede:** odpadki pridobivanja premoga, poljska premoška industrija.