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Session SC5

CIRCULAR ECONOMY: ENERGY AND MINING

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Recovering and purifying underground water from industrial area



Aim of the project: Feasibility study and a pilot project of converting waste from mine dewatering into municipal water

Project should comprise using innovative technologies and new materials to purify the water, as available water contains minerals and substances that need to be removed in order to use it in a municipal network

Basic elements of the project:

- ✓ Water recovery
- ✓ Heat recovery
- ✓ Process optimisation
- ✓ Using renewable energy

Advantages:

- ✓ Water contains no biological contaminants, only excessive microelements
- ✓ Water is heated by geothermal Energy

Benefits:

- ✓ Supplying municipal water to the community
- ✓ Reducing river pollution
- ✓ Supplying heat to the community

We're looking for partners to create a consortium and to build a pilot project in Poland and EU/EU - candidate countries



Expertise



- Technical advice in the preparation of expert reports on deposits, technical and environmental due diligence reports and feasibility studies for mines,
- Implementation of IT tools in the field of digital modelling of deposits and production scheduling,
- Assessment of the operation of energy-mechanical devices and machines based on data from control and measurement equipment and mine automation,
- Assessment of hard coal resources according to Polish and international standards (the JORC code), evaluation of economic effectiveness of mining projects
- Evaluation of the effectiveness of technological solutions for the exploitation of deposits,
- Renewable Energy: solar thermal, PV, wind, biomass.

Keywords: resources, mining, energy, waste management

In recent years we cooperated with:





Contact details



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