

Foresight Project on „Priorities and innovative technologies of waste management resulting from hard coal mining.”

The Project’s main objectives, thematic areas, organizational structure, key experts.

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Presentation Plan:

- The importance of coal for the Polish economy, the problem of waste
- The definition of Foresight
- Project partners
- Project objectives
- Main themes
- Timetable for implementation
- Applied research methods
- Experts participating in the Project

Hard Coal mining in Poland - scale of the problem

Currently in Poland function 42 Hard Coal Mines.

The amount of waste produced by the entire mining industry in Poland amounts to 124.4 million tones, including 34.4 million tones of waste coming from coal mining.

Additionally, it is estimated that close to 550 million tones of such waste is deposited in environment.

Project's Partners:

Coordinator of the Project:

Institute of Mechanised Construction and Rock Mining
located in Warsaw and Krakow

Project partners:

Silesian University of Technology, based in Gliwice,
AGH University of Science and Technology, located in in Krakow

Project objectives:

The main objective of the project is to identify leading technologies for management of waste mining of strategic importance, whose development in the next 20 years will be a priority for Poland, and the creation of scenarios for their development through the use of systematic research methods.



The main thematic areas:

Implementation of the Project covers three priority areas, coordination of each area will be than by one partner

1. Hard Coal Mining waste technologies in terms of pre-extraction-
AGH University of Science and Technology
2. Hard Coal Mining waste technologies in terms of extraction -
IMBiGS
3. Hard Coal Mining waste technologies in terms of processing-
Silesian University of Technology



Applied research methods - Foresight

Criteria for distribution	Methods
1. Qualitative methods, based on expert knowledge for the creation long-term strategies	<ul style="list-style-type: none"> -Delphi Method -Expert Panel -SWOT Analysis -Analysis of scenarios
2. Quantitative methods based on analysis of statistical data	<ul style="list-style-type: none"> -Simulation creation -Cross-impact-matrix analysis

Research methods used in this project:

- **SWOT analysis,**
- **Delphi method,**
- **The work of experts during panels,**
- **Cross-impact-matrix**
- **Creation and analysis of development scenarios.**

Panels of experts in the three thematic areas:

1. Hard Coal Mining waste technologies in terms of pre-extraction-AGH University of Science and Technology
2. Hard Coal Mining waste technologies in terms of extraction - IMBiGS
3. Hard Coal Mining waste technologies in terms of processing-Silesian University of Technology

Expert panels

Each of the three teams has the 12 participants (panel chairman and 11 members of the panel).

Responsibilities of the panelists will include:

- Clarifying the research area
- Preparation of the diagnosis within a given area,
- Determine the research hypotheses,
- Selection of respondents,
- Determine the questions and the development of survey forms,
- Create a partial report,
- Creation of development scenarios,
- Participation in the work concerned with the report, and the final research publication

Thank you for your attention

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