

Process Engineering Department

Innovations in mineral processing and metal recovery

- + Unlocking value from industrial waste
- + Feasibility assessment of investment projects in mineral processing plants
- + Enhancing the efficiency of technological process.



Our solutions – Your competitive advantage

The Process Engineering Department specialises in research and implementation of innovative solutions in **mineral processing, metal recovery and waste management**. Our activities focus on the development and optimisation of technologies used in the extractive industry, with the aim of increasing process efficiency while minimising environmental impact.

Drawing on decades of experience and expertise developed since the establishment of KGHM CUPRUM, the Department has built a **unique body of expert knowledge in process engineering and raw materials technologies**. Long-term research programmes and successfully implemented projects have resulted in the development of modern technological solutions of strategic importance to the raw materials sector.

The Department delivers expert studies, research and practical implementations in the following areas:

- + **Optimisation of mineral processing operations**, including sampling, analysis, and improvement of ore beneficiation and raw material recovery technologies,
- + **Feasibility studies and due diligence assessments for investment projects**, covering technical, economic and environmental viability,
- + **Metal recovery technologies**, including biohydrometallurgy, hydrometallurgy, flotation and other methods for recovering metals from ores and industrial waste,
- + **Mining waste management**, including technologies for the utilisation and reuse of waste in industry and construction,
- + **Design, modelling and mass balancing of processing systems**, including process modelling, mineral processing flowsheet design and analysis of material streams.

We provide expert knowledge and research facilities for:

- + Development and implementation of **innovative resource recovery technologies**,
- + Advancement of methods to **improve ore beneficiation efficiency**,
- + Development of **modern recycling and waste utilisation technologies**,
- + **Modelling and optimisation of technological processes**,
- + Technical and economic **performance assessment of projects**.

Contact us

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