KGHM CUPRUM

RESEARCH & DEVELOPMENT CENTRE

Energy Technologies Department

From concept to implementation in energy management

- **Improving energy efficiency** in industry
- Identifying and delivering **emission reduction opportunities**
- **Implementation** of **renewable energy sources (RES)**
- **Energy storage solutions**
- **Hydrogen technologies and Power-to-X conversion.**

Our Services

We are an interdisciplinary team specialising in **the optimisation of energy-intensive industrial processes.** Our work encompasses **research and development, conceptual design,** as well as **opportunity and feasibility studies,** aimed at **unlocking the potential of renewable energy sources, energy storage systems** and **the production** and **application of renewable hydrogen.** In our design activities, we focus on optimising entire technological value chains through the application of the best energy solutions. Our activities are structured around three core areas: **research and development, design and expert consultancy services,** and **laboratory research.**

The Department of Energy Technologies provides support for a wide range of projects, including:

- **Selection** and **evaluation of alternative technologies for energy resource extraction** and **conversion,**
- **Assessment of the potential for implementation of renewable energy sources** and **energy storage systems,**
- Assessment of the applicability of technologies based on the **production** and **use of renewable hydrogen** and **Power-to-X conversion pathways,**
- Analysis of **emission reduction opportunities in energy-intensive processes,**
- Feasibility studies on **the use of geothermal water heat** for **recreational** and **heating purposes,**
- **Analysis of energy-intensive** chemical processing of mineral raw materials,
- **Studies** of **modern desalination technologies** and **optimisation of energy consumption** in **desalination processes.**

We offer advanced laboratory testing and experimental research, including:

- **Performance** and **energy efficiency assessment** of **chemical processing of raw materials,**
- **Optimisation of solid–liquid separation processes** and **ore beneficiation,**
- **Research and testing related to water management** and **desalination technologies.**

Contact us

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