Challenge 5 „Climate actions, environment, resource efficiency and raw materials”
HORIZON 2020 (8th Framework Programme EU)
Offer for the participation in the project that will be prepared for the 1st call for proposals

The institution

| Name: Mineral and Energy Economy Research Institute of the Polish Academy of Sciences (MEERI) |
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Is interested in the participation in a project that will be prepared and submitted in the following topic:

Number of the open topic and Title (from Work Programme)

- Enhancing SME innovation capacity by providing better innovation support
- Secure, Clean and Efficient Energy
- Climate action, environment, resource efficiency and raw materials

Short description of the organisation: (including area of activity, scientific staff, expertise, equipment, collaboration, etc...) MEERI (www.meeri.pl) was established in 1986 in Krakow as a constituent unit of the Polish Academy of Sciences. The Institute employs 101 persons. The Institute has particular experience in research on the effective mining and engineering geology, power and heat generation, environmental engineering and management, geology and cartography, geophysics, use of mineral resources, geothermal energy, energy policy, planning and forecasting in the energy and minerals sector, environmental protection and the underground storage of hazardous wastes. Within these areas, the scientific activities of the Institute are as follow: assessment of efficiency and profitability of new investments in the mineral resources economy and waste management; assessment of the possibilities and economics of unconventional energy sources use; life cycle assessment and life cycle cost analysis, waste management; analysis of risk; legal and economic aspects of industrial waste storage. The Institute take part in many EU projects, e.g. FP-5: LICYMIN; CLOTADAM (2000-2004), LIFETIME (2000-2004); EU LIFE: OSELCA (2005); FP6 – CO2SINK, CO2ReMoVe, FP7 – LAGUNA, INTERREG III C: European Waste Management – (2004-2007), Ramea Regional NAMEA (2006-2007), INTERREG IV C – Sigma for water, E-mob, Timer, Foresight - UE Scenarios of technological development for copper mining industry in Poland (2006-2008); JRC Ispra Regional Risk Assessment of Mining Sites and Contaminated Sites in the Upper Silesia Region (2006-2007)

Proposed contribution to the project:

- Analysis and assessment of cost-effectiveness and financial feasibility of investments, verifying the legitimacy of the planned investment in terms of its profitability;
- Analysis and assessment of investment risk - identify the most significant risks that may be crucial to the success of the investment opportunities and an indication of active methods to control them, in particular the risk of technical and technological feasibility;
- Analysis the impact on the investment of product, service environment: performing a full analysis of the potential environmental impact using the Life Cycle Assessment method (LCA), verifying the LCA analysis for compliance with ISO 1404x, eco - design;
- Market analysis (selected industry in the country or abroad) - conducting market research on customers, competitors, products, and other issues occurring in the industry;
- Implementation of technological expertise in the field of opportunities for established technical and operational parameters;
- Finance in the mining industry: prices, hedging transactions, taxes . etc.: Develop strategies and policies for sustainable development and environmental management of the mining and energy industry.

Chosen references (publications, others):


Other information (if relevant):