

BIREC: Processing of Bi-containing Foams by Combination of innovative Raffination Processes

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In the wake of shortage and price increase of natural resources innovative technologies as well as more intelligent and more efficient usage of raw and other materials come more into the focus. In order to secure the competition advantages of the German industry in the longer term it is important to develop environment friendly and resource efficient processes. Since the need for Bismuth has doubled since 1990 and an increasing tendency is prognosed the Bi-winning from the Lead refining is of strategic and national economic relevance. The project BiRec is aimed at developing an innovative combination of processes for the winning of Bismuth from residues of the Lead refining by metallurgical and process engineering steps. Doing so qualitatively highstanding Bismuth shall be produced without having to undergo ecologically questionable process steps or generating critical intermediate products.

An overview of the project and the cooperating consortium will be given.