Production of Germanium and Gallium Concentrates for Industrial Processes

Microbeam Technologies Incorporated (MTI) is proposing to lead a team with UND and North American Coal, to develop a conceptual design of a process to extract, separate, recover and purify germanium and gallium from lignite coal-derived rare earth element concentrates. The team has received award from the DOE, providing a strong leveraging of NDIC project funding. The process will be integrated into the University of North Dakota’s (UND) rare earth extraction process and will be designed to co-produce germanium and gallium concentrates. The overall effort involves an integrated development that spans feedstock sourcing, feedstock optimization, extraction/concentration/separation/refining, and product use in industrial applications.

9 months

DOE $149,943
North American Coal Corporation $20,000 (In-Kind)
NDIC $20,000
Total $189,943

Status Report