

Lignite Research Program- Grant Round 90- Application Summaries						
Application Number	Application Title	Applicant	Project Duration	Summary of Project	Funding Requested	Total Project Cost
LRC-90-B	Co-Production of Multiple High Value Solid Products from Lignite Coals	University of North Dakota – Institute for Energy Studies	36 Months	To develop technologies that produce multiple high-value products from North Dakota lignite, including rare earth element concentrates, battery anode materials, and upgraded carbon products, creating new markets while supporting domestic critical mineral and energy material production.	\$157,500	\$1,064,625
LRC-90-C	Rare Earth Element Extraction and Concentration at Pilot-Scale from ND Coal-Related Feedstocks	University of North Dakota-Institute for Energy Studies	30 Months	To demonstrate a pilot-scale process for recovering rare earth elements (REEs) from North Dakota Lignite and coal-related feedstocks, advancing an environmentally sustainable and economically viable technology toward commercial production of domestic critical minerals.	\$900,000	\$6,508,555
LRC-90-D	Mitigation of Alkali Promoted Ash Deposition and Emissions from Coal Combustion	Barr Engineering Co.	36 Months	To develop and demonstrate sorbent injection technology that reduces aerosol formation and boiler fouling in lignite-fired power plants, improving plant efficiency, fuel flexibility, and readiness for carbon capture while advancing the technology to full-scale demonstration (TRL 7).	\$400,000	\$4,999,412