

Lignite Research Program- Grant Round 102- Application Summaries						
Application Number	Application Title	Applicant	Project Duration	Summary of Project	Funding Requested	Total Project Cost
LRC-102-A	Lignite Energy Council Education Program	Lignite Energy Council	3 Years	Educate teachers and students about North Dakota's lignite industry through seminars, outreach, and educational resources to increase awareness of the industry's role, career opportunities, and economic importance.	\$450,000	\$908,000
LRC-102-B	Redundancy Study for CO2 Capture at Coal Creek Station	Energy & Environmental Research Center (EERC)	9 Months	Conduct a redundant equipment design study to enhance the reliability and availability of the planned carbon capture system at Coal Creek Station by identifying and incorporating backup equipment into the engineering design.	\$837,313	\$1,674,627
LRC-102-C	Coal Creek Carbon Capture-Geologic CO2 Storage Complex Development	Energy & Environmental Research Center (EERC)	39 Months	Characterize and permit a geologic carbon dioxide storage complex capable of storing up to 200 million metric tons of CO ₂ to support carbon capture at Coal Creek Station and enable long-term, low-carbon coal-fired power generation.	\$6,119,690	\$50,387,901
LRC-102-D	Engineering Design and Feasibility Analysis for Commercial; Graphite and Asphalt Manufacturing from Lignite-Derived Carbon Pitch	AmeriCarbon Products, LLC	18 Months	Advance the engineering and economic design of a commercial facility that converts North Dakota lignite into high-value carbon products, including battery-grade graphite, asphalt binder, and Eco-Pitch™, to support domestic manufacturing and commercialization.	\$700,000	\$1,400,000
LRC-102-E	Williston Basin CORE-CM Initiative-Continued Assessment	University of North Dakota Energy & Environmental Research Center	16 Months	Advance the Williston Basin CORE-CM Initiative by assessing rare earth elements, critical minerals, and coal-based products, identifying resource opportunities, supporting business	\$1,050,000	\$2,100,000

				development, and preparing for future industry commercialization.		
LRC-102-F	Assessment of Lignite-Based Industrial Residues for Value-Added Product Creation through CO2 Mineralization	University of North Dakota- College of Engineering & Mines	2 Years	Evaluate the feasibility of using carbon dioxide mineralization to convert lignite combustion ash and scrubber residues into marketable cement materials while permanently storing carbon dioxide and reducing coal combustion waste.	\$250,000	\$1,250,000
LRC-102-G	Recovery and Refining of Rare Earth Elements from Lignite Mine Wastes	University of North Dakota- College of Engineering & Mines	2 Years	Complete a front-end engineering and design (FEED) study for a commercial facility to recover and refine rare earth elements and critical minerals from North Dakota lignite mine waste, preparing the project for construction and commercialization.	\$2,000,000	\$9,999,999