

Lignite Research Program- Grant Round 96- Application Summaries						
Application Number	Application Title	Applicant	Project Duration	Summary of Project	Funding Requested	Total Project Cost
LRC-96-A	Williston Basin CORE-CM Initiative	Energy & Environmental Research Center (EERC)	20 Months	To establish the Williston Basin CORE-CM Initiative by developing a regional supply chain for rare earth elements, critical minerals, and carbon-based products from coal and coal-related resources, creating new markets and expanding the economic value of North Dakota Lignite.	\$750,000	\$2,450,000
LRC-96-B	Ammonia-Based Energy Storage Technology- NH3-BEST	University of North Dakota – Energy & Environmental Research Center	12 Months	To develop and evaluate an ammonia-based energy storage system for North Dakota lignite-fired power plants by integrating ammonia production, storage, and fuel cell technology to improve grid reliability and support commercialization of long-duration energy storage.	\$101,390	\$426,390
LRC-96-C	Determining Optimum Coal Bottom Ash Content for Sustainable Concrete Infrastructure	University of North Dakota- College of Engineering & Mines	12 Months	To evaluate the use of North Dakota coal bottom ash and nano clay in concrete to improve strength, durability, and sustainability while reducing material costs and increasing beneficial use of coal combustion byproducts.	\$101,390	\$426,390
LRC-96-D	Continued Funding for Regional Lignite Energy Public Affairs Program	Lignite Energy Council	N/A	Seeks to broaden the support of coal-based electricity in North Dakota and Minnesota. The strategies to be implemented for 2021 include promotion of electric vehicles with messaging to increase the power usage in ND generated by lignite-based power plants; increased engagement by employees of the Lignite Energy Council members; messaging to youth; providing studies that show the economic consequence of reduced electric generation from North Dakota lignite-based plants; and promotion of the benefits of affordable and reliable electricity.	\$1,800,000	\$3,600,000