

Lignite Research Program- Grant Round 73- Application Summaries

Application Number	Application Title	Applicant	Project Duration	Summary of Project	Funding Requested	Total Project Cost
LRC-73-A	Demonstration of Multipollutant Reduction Using a Lextran 3-1-1 Wet Scrubber	Energy & Environmental Research Center (EERC)	10 Months	The project demonstrates a Lextran 3-in-1 wet scrubber technology designed to simultaneously reduce multiple pollutants from lignite-fired power plant emissions, including sulfur dioxide, nitrogen oxides, mercury, and other hazardous pollutants. Through pilot-scale testing, the project aims to evaluate the technology's effectiveness, support cleaner coal utilization, and advance future field demonstrations in North Dakota.	\$67,200	\$199,050
LRC-73-B	Novel In-Site Sorbent Activation Process (SAP)	Great River Energy	12-18 Months	To demonstrate and validate a patented technology that converts North Dakota Lignite into activated carbon for mercury emissions control at power plants. The project aims to reduce compliance costs for utilities, create new value-added uses for North Dakota Lignite, and support commercialization of an innovative emissions-control technology with potential applications throughout the power industry.	\$400,000	\$1,045,000
LRC-73-C	Geomechanical Study of Harmon Lignite and Surrounding Rocks for Underground Coal Gasification in Western ND	University of North Dakota- The Institute for Energy Studies	2 Years	To evaluate the feasibility of underground coal gasification (UCG) in North Dakota's Harmon lignite formation. The study will analyze geological, geo-mechanical, and hydrogeological conditions to	\$242,729	\$485,712

				identify suitable UCG sites, assess environmental and stability risks, and determine whether UCG can provide an economically viable method for utilizing North Dakota Lignite Resources.		
--	--	--	--	--	--	--