Contract No. R-043-053
"Research in Support of Integrated Carbon Capture and Storage for N.D. Ethanol Production"
Submitted by EERC
Principal Investigator: Kerryanne Leroux

PARTICIPANTS

Sponsor	**Cost Share**	
Red Trail Energy	$700,000	
Subtotal Cash Cost Share		$700,000
North Dakota Industrial Commission	$500,000	
Total Project Cost		$1,200,000

Project Schedule – 18 months
Contract Date – 6/16/2020
Start Date – 6/1/2020
Completion Date – 11/30/2021

Project Deliverables:
Progress Report for 6/20 – 9/20: 10/31/2020
Progress Report for 10/20 – 12/20: 1/31/2021
Progress Report for 1/21 – 3/21: 4/30/2021
Progress Report for 4/20 – 6/21: 7/31/2021
Progress Report for 7/20 – 9/21: 10/31/2021
Final Report: 11/30/2021

OBJECTIVE/STATEMENT OF WORK:
The objective of this project is to create a blueprint for the 1st integrated ND ethanol and CCS facility, compliant with ND Class VI regulations, to strategically maximize the marketability of ND ethanol through evolving CCS incentives. Tasks include:

- A summary of site-specific geologic evaluation steps necessary to finalize CCS designs that ensure safe injection and storage
- Contrast & compare the federal and state incentive requirements with the ND Class VI program, to establish potential business cases and ensure economic viability.
- Detailed interpretations and documentation needed to ensure regulatory compliance for CO2 injection and storage.
- Community engagement and information dissemination, and impact assessment to ensure public knowledge sharing. A CCS Outreach Tool Kit will be developed to assist others interested in moving forward.
- Compilation of a CO2 Storage Facility Permitting Guidance Document to assist implementation of CCS by other ND renewable energy or biofuel producers.

STATUS:

The contract has been fully executed.

Updated 6/26/20