University of Alaska Fairbanks - Alaska Railbelt Carbon Capture & Sequestration Project

FY2025 Request: **$11,100,000**
Reference No: **65319**

AP/AL: Appropriation
Project Type: Research / Studies / Planning
Category: University
Location: Fairbanks (Denali/University)
House District: Fairbanks Areawide (HD 31 - 35)
Impact House District: Fairbanks Areawide (HD 31 - 35)
Contact: Michelle Rizk
Estimated Project Dates: 07/01/2024 - 06/30/2029
Contact Phone: (907)450-8187

Brief Summary and Statement of Need:
In partnership with the State of Alaska, the University of Alaska Fairbanks (UAF), and its project partners submitted an $11.1 million proposal to the United States Department of Energy (DOE) for "Carbon Storage Assurance Facility Enterprise (CarbonSAFE), Phase II", to conduct a CO2 Storage Complex Feasibility assessment.

Funding:	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	Total
1002 Fed Rcpts	$8,880,000						$8,880,000
1003 G/F Match	$2,220,000						$2,220,000
Total:	$11,100,000	$0	$0	$0	$0	$0	$11,100,000

☑ State Match Required ☐ One-Time Project ☐ Phased - new ☐ Phased - underway ☐ Ongoing
20% = Minimum State Match % Required ☐ Amendment ☐ Mental Health Bill

Operating & Maintenance Costs:

	Amount	Staff
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Prior Funding History / Additional Information:

Project Description/Justification:
This ambitious effort will support the pursuit of a low-carbon, economically affordable, reliable energy supply option to address the pending shortage of natural gas and electricity supply in the Railbelt of Alaska.

The project objective is to enable wide-scale deployment of carbon capture and storage (CCS) by assessing and verifying the feasibility of using the proposed storage complex in southcentral Alaska for the safe and cost-effective commercial-scale (i.e., ≥50 million metric tons (Mt) within 30 years) storage of anthropogenic CO2 emissions captured from a proposed new 400-megawatt gross, dual-fuel capable, power generation plant and two existing facilities in southcentral Alaska. The feasibility study will evaluate the aggregation of CO2 captured from these sources for injection into a geologic storage complex on the northern shore of Cook Inlet Basin. Department of Energy (DOE) requires a 20 percent cost share commitment or $2.2 million of the proposed $11.1 million budget. Should UAF be the successful recipient of the DOE award, UAF's ability to accept the funding is contingent upon the State of Alaska providing matching funds.