

AP/AL: Appropriation **Project Type:** Energy
Category: Natural Resources **Recipient:** NA
Location: Statewide **House District:** Statewide (HD 1 - 40)
Impact House District: Statewide (HD 1 - 40) **Contact:** Theresa Cross
Estimated Project Dates: 07/01/2024 - 06/30/2029 **Contact Phone:** (907)269-6398

Brief Summary and Statement of Need:

The Division of Oil & Gas anticipates federal grant funding from the Department of Energy to assess and provide pertinent data via the Alaska Carbon Capture, Utilization, and Storage Database to an emerging carbon management industry with the goal of accelerating the development and implementation of CO2 storage within the Cook Inlet Region of Alaska. The overall objective of this project is to equip industry to understand the storage potential of Cook Inlet while also helping the people of Alaska understand carbon management and the role it can play in decarbonization.

Funding:	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>	<u>FY2027</u>	<u>FY2028</u>	<u>FY2029</u>	<u>Total</u>
1002 Fed Rcpts	\$1,000,000						\$1,000,000
Total:	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000

<input type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> Ongoing
0% = Minimum State Match % Required		<input checked="" type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
Totals:	0	0

Prior Funding History / Additional Information:

Project Description/Justification:

The overall goal of this project is to evaluate and support the development of safe and socially equitable long term Carbon Storage (CS). A publicly accessible geospatial database will progress CCUS objectives and serve the greater scientific community as well by centralizing key data sets with applications to groundwater, environmental, and seismic hazards studies. Societal considerations and environmental impacts are of utmost importance in Alaska and therefore the first step in this project is to identify environmentally and socially sensitive areas and minimize impacts on these areas by any future Carbon Capture Utilization and Storage (CCUS) industry.

The Division of Oil and Gas will utilize internal DNR staff and employees from other State entities to assess the Cook Inlet Region to identify what information is available to support an emerging CCUS industry. This will entail queuing multiple state and federal agency databases, research, and publications to determine what information is available to put in a centralized database for public distribution. This information will include basin analysis, rock properties from outcrop, core and well logs, seismic data, reservoir models, storage capacity, and potential reservoir and seal identification.

A portion of the funding will be allocated to establish strong technical expertise and provide society and community engagement. We will work with the University of Alaska Fairbanks Alaska Center for Energy and Power (ACEP), Alaska Resource Education (ARE) and Cook Inlet Region, Inc. (CIRI) to perform these tasks.

The remainder of the funding will be used to hire a contractor/consultant to ensure a website is built that is populated with the pertinent data listed, that it is user friendly, and it incorporates spatial data that can be downloaded. The project will store and distribute Cook Inlet CCUS data within the existing GIS architecture. Upon assessment of the available data, the project will determine where best to store the related data. The project will leverage existing data services and generate new datasets only when required, following the four FAIR Principles (Findability, Accessibility, Interoperability, and Reuse) to ensure quality metadata is available for all datasets.

ArcGIS data services will be created for all relevant datasets. These datasets will be findable through the integrated Alaska Statewide Hub. A CCUS specific ArcGIS Hub site will be generated to give users a comprehensive solution for AK CCUS information and data. In addition to data services, on the project will build one or more web applications leveraging these datasets and providing users exploration map-based visualization of the data.

The division will utilize existing general funds to meet the \$250,000 match requirement.

Line Item	Amount
1000 – Personal Services	
2000 – Travel	
3000 – Services	\$1,000,000
4000 – Commodities	
5000 – Capital Outlay	
7000 – Grants	
Total	\$1,000,000