

AP/AL: Appropriation **Project Type:** Energy
Category: Development
Location: Statewide **House District:** Statewide (HD 1-40)
Impact House District: Statewide (HD 1-40) **Contact:** Frank Richards
Estimated Project Dates: 07/01/2023 - 06/30/2028 **Contact Phone:** (907)330-6352

Brief Summary and Statement of Need:

Develop detailed plans for Alaska to be one of six (6) to ten (10) regional hydrogen hubs funded by the Department of Energy. This competitive grant will result in \$10 million in federal funds to prepare the detailed Phase 1 Plan describing how Alaska will produce, process, deliver, store, and use clean hydrogen. Funding for the Phase 1 Plan is estimated to be awarded in April 2023. Phase 1 will take approximately 12 to 18 months to complete.

Funding:	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
1002 Fed Rcpts	\$10,000,000						\$10,000,000
Total:	\$10,000,000	\$0	\$0	\$0	\$0	\$0	\$10,000,000

<input type="checkbox"/> State Match Required	<input 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 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:

Sec14 Ch11 SLA2022 P117 L21 CCSHB281 \$4,250,000

Alaska's tremendous natural gas resources, geographic location, ability to export hydrogen in the form of ammonia, and world-class carbon sequestration potential make Alaska uniquely qualified to be a regional hub. The Department of Commerce, Community, and Economic Development will include utilizing an existing facility in Nikiski as part of Alaska's hydrogen hub plan which will make the state's proposal more competitive.

Project Description/Justification:

Establishing Alaska as a private sector-led hydrogen hub will position the state as a world class energy supplier for decades to come and provide thousands of new permanent jobs.

The Alaska Hydrogen Hub concept is based on initial large-scale production of low carbon ammonia at the existing Nutrium ammonia plant in Nikiski. Carbon dioxide captured at the plant will be transported via pipelines to local sequestration injection wells in Cook Inlet for deep underground injection and storage. Low carbon ammonia will be used in Alaska and exported via ocean going tankers.