

AP/AL: Appropriation

Project Type: Energy

Category: Development

Location: Statewide

House District: Statewide (HD 1-40)

Impact House District: Statewide (HD 1-40)

Contact: Les Campbell

Estimated Project Dates: 07/01/2019 - 06/30/2024

Contact Phone: (907)330-8356

Brief Summary and Statement of Need:

This project provides funding for a designated grant to the Cold Climate Housing Research Center (CCHRC) to conduct housing construction research, analysis, and information dissemination among the housing industry and the public. Data gathering and analysis is being continually related to energy efficiency technology for homes constructed in northern building and market conditions.

Funding:	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	Total
1139 AHFC Div	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$6,000,000
Total:	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$6,000,000

<input type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input checked="" type="checkbox"/> On-Going
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:

- Sec1 Ch1 SLA2018 P9 L8 sb142 \$1,000,000
- Sec1 Ch1 SLA2017 P7 L4 SB23 \$1,000,000
- Sec1 Ch2 SLA2016 P16 L16 SB138 \$1,000,000
- Sec1 Ch38 SLA2015 P6 L14 SB26 \$500,000
- Sec25 Ch38 SLA2015 P39 L17 SB26 \$250,000
- Sec1 Ch18 SLA2014 P61 L27 SB119 \$750,000

Project Description/Justification:

This project provides funding for a designated grant to the CCHRC to conduct housing construction research, analysis, and information dissemination among the housing industry and the public. Data gathering and analysis is being continually related to energy efficiency technology for homes constructed in northern building and market conditions.

Program Description

This program funds research, monitoring and testing of energy efficiency designs, products, and construction technology and methods for cold and very-cold climates. Considering the diverse building conditions and requirements across the state, the home building industry has indicated they would like to see research and testing of affordable energy efficient designs in different regions of the state.

Energy Efficiency (EE) in Alaska is an energy resource, similar to coal, oil, gas or hydro. AHFC is required by state statute to purchase homes that meet minimum energy efficiency and construction standards. The State of Alaska and AHFC have established and funded incentive programs for increased energy efficiency in homes and public facilities. CCHRC is an integral partner with AHFC to help maximize this resource, determine best, most cost effective energy efficiency practices, techniques and materials; how effective certain energy efficiency designs have been across Alaska's climate regions; and scoping out promising technologies for the future.

CCHRC provides:

- Data gathering and analysis of energy efficient designs for homes. Alaska has a wide range of climates and temperatures with everything from coastal rain forests to arctic tundra.
- Energy efficient designs and technologies for homes need to address climactic conditions in each of these regions across the state.
- Homes in different regions of Alaska and with different energy efficiency designs are modeled and monitored for energy usage, comfort levels, durability, occupant health, safety, and economic benefit of efficiency features. Activities should have a high level of effectiveness and success based on three reasons:
 - **Programs and projects are results-oriented** - Home building is a practical activity. Monitoring research and analysis should seek workable answers to real problems of home building and to real ways to improve homes across Alaska. Future trends and developing technologies need to be considered - with emphasis on the impact that such trends and technologies will have on the way homes are actually built.
 - **Contact with the real world of home building needs to exist by having some ties to the state home building industry** - In addition to a statewide association, local home building associations exist in Anchorage, the Kenai Peninsula, Ketchikan, Juneau, Interior Alaska, Mat-Su, and Kodiak. These associations provide a grassroots network of cooperating builders. Builders provide direction on specific building questions, technologies, designs, and can incorporate in studies and field tests.
 - **Research and analysis flow directly into the building industry and the public** - Monitoring results help link the research and product development with the practitioners who put methods into practice and products into use. The involvement of the building industry increases builder's confidence in the findings. All results and analysis are disseminated throughout the housing industry creating a favorable climate for the adoption of desirable changes.

CCHRC's Cold Climate Building Infrastructure Research and the Testing Facility (RTF) is located in Fairbanks, Alaska. CCHRC is a 501c(3) corporation founded by members of the Alaskan homebuilding industry.

The projected outcomes are:

- Conducting research, analysis, information dissemination and interchange among members of the industry, and between the industry and the public;
- Gathering data and performing analysis of geographically diverse area energy-efficient designs for homes; and
- Monitoring homes for energy usage, comfort levels, durability, occupant health, and economic benefits of efficiency features.

