

Heat Pump System for City of Seward

FY2019 Request: \$725,000
Reference No: 61906

AP/AL: Allocation

Project Type: Energy

Category: Development

Location: Seward

House District: Kenai Areawide (HD 29-31)

Impact House District: Kenai Areawide (HD 29-31) **Contact:** John Springsteen

Estimated Project Dates: 07/01/2018 - 06/30/2023 **Contact Phone:** (907)771-3000

Appropriation: Alaska Energy Authority - Round IX Renewable Energy Project Grants (AS 42.45.045)

Brief Summary and Statement of Need:

Design and construction of a ground source heat pump system to displace approximately 96% of the heating oil usage of four existing City buildings and one future building. The system includes an underground heat exchanger, warmed by the ocean tides of Resurrection Bay, with a 50 year design life. Trunk mains will be installed to allow connection to new campground shower facilities. Four high efficiency water to water heat pumps, one buffer tank, and loop pumps will be installed in the existing mechanical rooms of the Library and City Hall. One buffer tank will be installed in the Annex and the Fire Hall. The total quantity of heating oil anticipated to be displaced annually is roughly 20,000 gallons.

Funding:	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	Total
1210 Renew Ener	\$725,000						\$725,000
Total:	\$725,000	\$0	\$0	\$0	\$0	\$0	\$725,000

<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"/> 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: